Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

December 15, 1958

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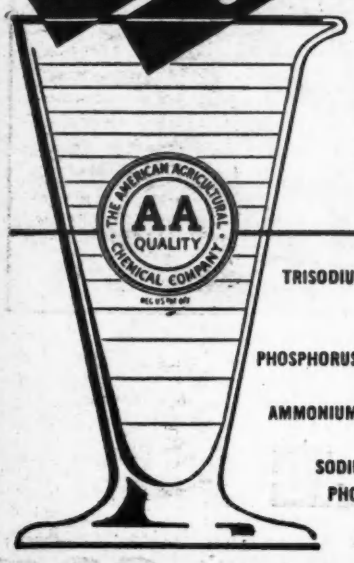

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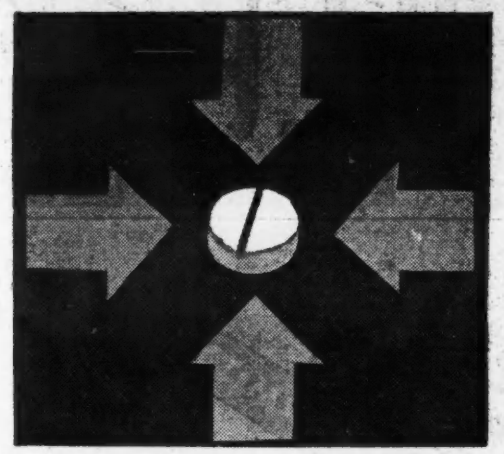

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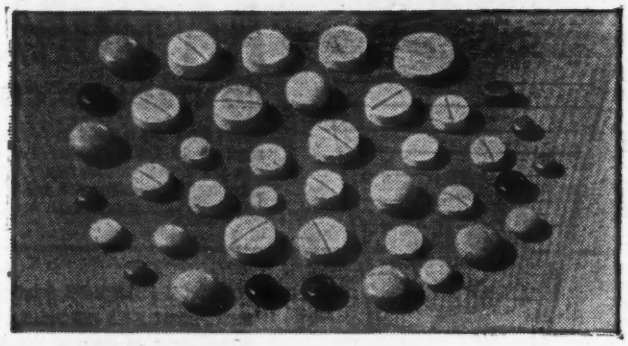

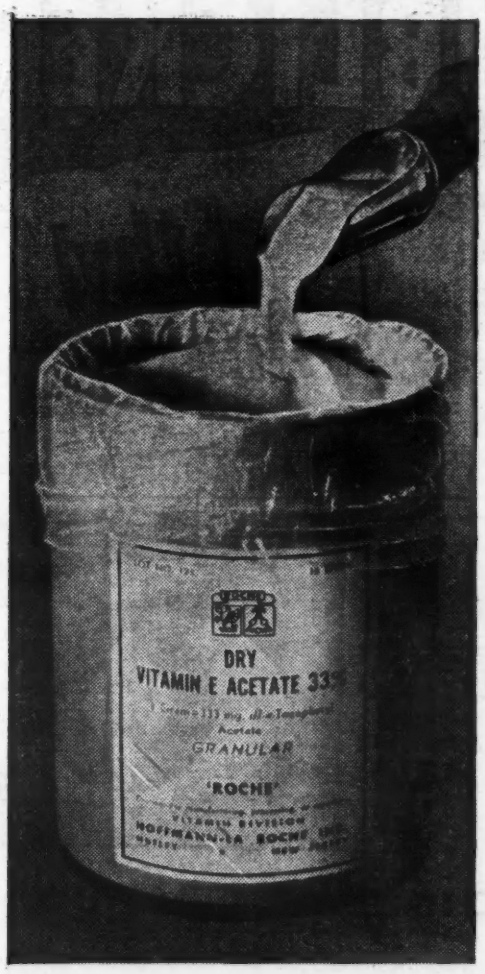

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Oil, Paint and Drug Reporter

Vol. 174 No. 25 30 Church St., New York 7, N. Y. December 15, 1958

ALLIED PLASTICS VICE-PRESIDENT: Frank M. Norton, appointed vice-president of the plastics and coal chemicals division of Allied Chemical Corporation, New York, in charge of engineering, manufacturing and purchasing for that unit.

Cyanamid Profit Off, But '59 Looks Good

Next year looks good for American Cyanamid Company, but its stockholders can expect more than a 25 percent drop in earnings for 1958, and probably for the first half of 1959. This is the view of Dr. Wilbur G. Malcolm, president of the New York company.

Dr. Malcolm expressed this opinion last week before a meeting of the Cleveland Security Analysts in Cleveland, Ohio.

"Expenditures for new plants and expanded facilities during 1957 and 1958 have been sharply higher than our historical rate," Dr. Malcolm points out.

"With an estimated $85 million to be expended this year, the combined total for the two years will approximate $170 million.

"The major portion of the spending in 1957 and most of it in 1958 relates to projects scheduled for completion during the latter half of 1958 and the first part of 1959," Cyanamid's president notes.

Significant projects include the following:

- Doubling the capacity for acrylonitrile at the Fortier, La., plant.
- Construction of a plant near Pensacola, Fla., to make Cyanamid's "Creslan" acrylic fiber, with a designated capacity of 27 million pounds per year.
- Doubling of capacity to produce "Unitane" titanium dioxide pigments to 72,000 tons a year at Savannah, Ga. This, together with the 16,000-ton-a-year capac-

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Wyandotte Is Rebuilding Ethylene Oxide-Glycol Plant

Wyandotte Chemicals Corporation, Wyandotte, Mich., has already begun reconstruction of its ethylene oxide-glycol plant at Geismar, La., following the explosion and fire which occurred there November 25.

Company engineers now estimate that the plant will be back in operation within two to three months.

Injuries to plant personnel and damage to equipment and property were surprisingly low in relation to the severity of the explosion, Wyandotte said.

Although the very detailed investigation of the cause of the explosion is not complete, it is now believed that it was due to a combination of factors which are correctable. Most significant in the investigation so far is that the cause of the explosion does not appear to be fundamental in the basic chemical process, the company added.

Chemical Trade Feels Bullish And Is Backing Up Its Feelings With Some Big Building Plans

The chemical industry is feeling pretty bullish about 1959. It may be the only line of business in the non-durable manufacturing field which feels that way, but it intends to back up its convictions by spending more for plants and equipment in the first quarter than it had on its schedule for the last two quarters of this year. That is how the wind was blowing last week in the quarterly report of the Department of Commerce and the Securities and Exchange Commission.

The two agencies said, based on reports from the chemical industry on planned spending in the first three months of 1959—when adjusted for seasonal variations—that the 1959 expenditures for plants and equipment would total around $1.34 billion.

Spending in Third, Fourth Quarters

During the third quarter of 1958 the industry's capital spending—on a seasonally adjusted annual basis—was at the rate of $1.27 billion and during the last quarter of this year is estimated at the rate of $1.22 billion.

Plans of all other industries in the nondurable group—when adjusted on a seasonal basis—called for less spending in the first quarter of next year than during the last quarter of this year.

The seasonally adjusted figure for individual industries was a new figure in the capital expenditure report of the two agencies. Previously, only seasonally adjusted estimates were available on a broad coverage—for manufacturing as a whole, or the durable group as a whole or the nondurable group as a whole.

The new series of estimates was included in the report because experience with the quarterly surveys showed that some businessmen, in reporting their quarterly anticipations, did not fully make allowances for a number of factors such as weather and accounting adjustments.

As a result anticipations for particular quarters exhibited recurrent over-or under-statements with respect to actual expenditures as later reported.

It was explained that because of the systematic character of these tendencies it has been possible to make adjustments in the quarterly anticipations which con-

—Continued on page 54

WALLACE & TIERNAN V. P.: Charles H. Rybolt, who on January 1 will become vice-president in charge of the chemical divisions of Wallace & Tiernan, Inc., Belleville, N. J.

Reynolds, Warner-Lambert Lose Their Urge to Merge

R. J. Reynolds Tobacco Company of Winston Salem, N. C., and Warner-Lambert Pharmaceutical Company of Morris Plains, N.J., no longer have the urge to merge.

The two companies have been talking about consolidating since early October (OPD, 10/6/58). Now the whole thing is off and here, according to a joint statement by the two concerns, is why:

"Following several months of study the managements of both companies, although having developed a high regard one for the other, concluded, since it did not seem possible to reach agreement on certain important aspects of the proposed transaction, not to proceed further with the discussions."

Additives, Food Men Voice No Complaints

The makers and the users of chemical food additives don't seem to have anything resembling a serious complaint over the way the additives law is being administered by the Food and Drug Administration.

That was made evident last week at a meeting called by Secretary Arthur S. Flemming of the Department of Health, Education and Welfare, at which he sought to learn how the representatives of some sixty trade associations felt about the way the law is being handled.

The representatives passed up the opportunity to turn the meeting into a "gripe session" and limited their criticisms to a relatively few areas of controversy.

Charles Wesley Dunn, speaking for

—Continued on page 70

Ethylene Facility Contract Let by British Hydrocarbon

British Hydrocarbon Chemicals, Ltd., has engaged Stone & Webster Engineering, Ltd., London, to build an ethylene unit in Grangemouth, Scotland.

Production of ethylene and other olefins commenced in 1951, and was expanded in 1956 with the completion of a second unit. The new plant will be the largest of its kind outside of the United States and will be considerably bigger than any other such plant so far built in Europe, it is reported.

House Probers Turn Cold Stare On Drug Men

The Fountain committee of the house is again turning its cold stare on the drug industry and, unless there is an unexpected hitch in developments, a few important segments of the drug-making business may be answering some significant questions by early next year.

The Fountain committee, the drug industry sometimes shudders to recall, is a sub-group of the house government operations committee which conducted the inquiry two years ago into the Public Health Service arrangements with the Salk polio vaccine producers.

That chilling probe, the drug people unhappily recall, touched off the Department of Justice suits against the industry.

Will Look Into NIH Spending

This time, the committee's interest centers around the research expenditures of the National Institutes of Health. It wants to know about the contracts that NIH has made with the drug industry to carry out certain research projects.

It also wants to look into the matter of patent policy and patent agreements involved in these contracts.

The committee hasn't gotten the okay for the investigation, but aids are so confident that this will be forthcoming after congress meets in January and organization of the house for the new session is completed that they are already in the throes of gathering material for the investigation.

However, they emphasize that the inquiry is in its most preliminary stages at this time and that it is not anticipated that it will get into the field of consumer prices except as the prices might be incidental to the broader question of whether the taxpayers are getting their money's worth from the research spending by NIH.

Committee aids feel that an investigation into the research expenditures of NIH is entirely justified in view of the large amounts going for this purpose.

They estimate such expenditures in the neighborhood of $250 million annually or nearly twice the amount that the drug industry itself spends for research.

Indications are that the committee will pay particular attention to patent policies of NIH. The agency is working within the confines of a new departmental policy laid down recently by former Secretary Marion Folsom of the Department of Health, Education and Welfare.

The policy is being applied in the cancer drug research program and allows exclusive patent rights to participating companies under certain conditions.

Hoechst Pharmaceuticals Part of Intercontinental

Hoescht Pharmaceuticals, Inc., located in the Empire State Building, New York, has been formed as a subsidiary of Intercontinental Chemical Corporation, also New York.

Hoechst Pharmaceuticals will represent the interests in this country of the pharmaceutical division of Farbwerke Hoescht AG., Frankfurt-Hoescht, West Germany, one of the major chemical concerns in Europe.

Dr. K. E. Soltner has been appointed president, L. C. Balling has been named vice-president and secretary, and W. F. Johannsen treasurer.

Reichhold Equips Unit For Acrylic Emulsion

Reichhold Chemicals, Inc., White Plains, N. Y., has just equipped its plant in Ballardville, Mass., for the manufacture of 10 million pounds of acrylic emulsion a year, including a new line of products for the surface coating and leather finishing industries. This is said to put RCI among the country's foremost producers of this resin.

Reichhold has designated its acrylic ester emulsions as "Acripols," these being in addition to the several "Acripol" products which it has produced for the floor polish industry since late last year.

Nitrogen World Surplus to Double This Year: Aikman

World nitrogen output in 1958-59 should reach a whopping 595,000 tons in excess of consumption—more than double the 225,000-ton surplus reached in 1957-58. What's more, domestic output may drop further.

In its most recent estimate of the world nitrogen position, Aikman [London], Ltd., tempers this prediction by saying that the general outlook is not as pessimistic as the figures indicate.

Why? The London firm, looking backward, points out that stocks in Europe on June 30 were estimated at under 300,000 tons, or about 6 percent of production. This is not an alarming figure, Aikman says.

Furthermore, in the United States and Canada, the next largest producing markets, stocks appear to be more or less normal.

Both in the US and Europe, Aikman points out, the largest producers have tended to reduce production because of low prices—and this trend may continue next year. It is also possible that the estimated surplus may be considerably less than present figures indicate.

In the US, Aikman notes, producers are working at about 75 percent of capacity. In Germany, France, Belgium and Italy, the largest plants are operating at no more than 80 percent of capacity.

In ammonium sulfate, the London source indicates, production is more or less in balance with consumption, as it is in this product that major reductions have taken place owing to higher costs.

Other highlights in the Aikman report include:

- Trepidation among European produ-

—Continued on page 46

Chemical Users of Natural Gas On Lookout for Increased Rates

An important cost factor to the chemical industry—natural gas—may be on its way up. That is how things seem to be going now that the Supreme Court of the United States has wiped out restraints against higher rates for natural gas sold through interstate pipelines. The action came last week—when the justices ruled 5-3 in the Memphis case—that pipeline companies may boost rates without first obtaining the consent of consumers.

As matters now stand the only check on a rate increase is a veto from the Federal Power Commission, which would review boosts after they had been instituted and could, if it chose, order refunds.

Agrees With Old Interpretations

The decision is in accord with the interpretation that the FPC and the Department of Justice had placed upon the provisions of the natural gas law, but which was fought by a number of the municipalities removed from the natural gas fields.

It clarifies an issue that has held back expansion of the natural gas industry to a large degree for the past three years.

In deciding in favor of the companies, the supreme court, in effect, freed about $240 million of funds which had been accumulating since the issue was first raised as a result of an earlier ruling of the court that a company could not unilaterally file increased rates under a contract with its customer if it made no mention of future rate schedules.

The $240 million represented funds that would have had to be refunded to customers by companies which had put increases into effect, subject to the ruling last week.

Relying on the decision in the earlier case—the so-called Mobile case—several customers of United Pipeline Company petitioned the FPC to reject new rate increases filed by United, but the FPC re-

—Continued on page 63

Vitamin B-12 Prices Of Merck Are Cut

Merck & Co., Rahway, N.J., late Friday announced lower price schedules on vitamin B-12 products. Under the new price schedule, cyanocobalamin USP, which was $190 per gram, is reduced to $163 per gram.

A solution of cobalamin concentrate, which had been priced at $170 per gram, is now $160 per gram. Cobalamin concentrate NF, which was $160 per gram, has been reduced to $150.

Cyanocobalamin trituration, 0.1 percent, which had been priced at $218 per kilo, is now $188 per kilo.

Poly-Coated Board Seen a Sales Booster

"The recent development of polyethylene-coated corrugated board is one of major potential and might conceivably play an important role in future growth of the polyethylene industry," according to Vincent M. McCarthy, manager of polyethylene sales for US Industrial Chemicals Company, New York, a division of National Distillers & Chemical Corporation.

In support of this statement he cites both the vastness of the corrugated industry and the wide number of products shipped in corrugated containers which would profit from a polyethylene coating.

In 1957, 6,879,400 tons of corrugated

—Continued on page 63

Carbide Adds Half Cent To CL-LCL Differentials

Union Carbide Chemicals Company, New York, a division of Union Carbide Corporation, on January 1 will increase the price differentials between carload and less-than-carload lots by one-half cent a pound for solvents and a variety of chemicals sold on a delivered basis.

The change, attributed to the higher cost of handling small shipments, will affect such industrial chemicals as esters, ketones, isopropanol, alkyl amines and ehtylene amines.

Until now, prices for less-than-carload lots have been 1 cent per pound higher than for carload shipments. With the new change, the differential will be 1½ cents a pound.

BHT Antioxidant Prices Are Slashed by Hercules

Hercules Powder Company, Wilmington, Del., today (December 15) slashed prices for all grades of its BHT antioxidan's. The new schedule reduces prices by 10 cents a pound for most grades.

BHT (butylated hydroxy toluene) antioxidants are chemically described as 2, 6-di-ter-butyl-p-cresol, and are marketed by Hercules under the trade name "Dalpac."

Technical grade "Dalpac," which is used in gasoline, petroleum oils and other industrial applications, is now priced at 79 cents in tankcars and tank wagons; 81 cents in carloads or truckloads of drums, and at 86 cents in less-than-carload quantities, delivered.

The microground feed grade, which is used in mixed feeds and dry feed ingredients, is now quoted at 97 cents per pound in fifty-pound drums, delivered. The food grade "Dalpac," for edible fats and other products, is quoted at $1.10 per pound in 100-pound drums, delivered.

Toluene solutions of technical grade "Dalpac" (33⅓ percent) are priced at 30.2 cents in tankcars or tank wagons; 31.7 cents in carloads or truckloads of drums, and at 33.7 cents per pound, l.t.l.

The Week's Price Changes

Dried Blood, Carnauba Wax, Soybean Meal Advanced. Cedarwood Oil, Mercury, Patchouli Oil Reduced.

Prices Advanced

Dried Blood, Chicago, 25c. per unit-ton (p. 47).
Carnauba wax, chalky, 1c. per lb. (p. 69).
No. 2, crude, 2c. per lb.
Refd., 3c. per lb.
No. 3, crude, 3c. per lb.
Refd., 3c. per lb.
No. 1, yellow, 3c. per lb.
Cottonseed meal, $3 per ton (p. 68).
Linseed meal, $5.50 per ton (p. 68).
Oleic acid, ¼c. per lb. (p. 69).
Peanut oil, crude, ¾c. per lb. (p. 68).
Refd., ⅞c. per lb.
Soybean meal, $1 per ton (p. 68).
Stearic acid, ¼c. per lb. (p. 68).
Tallow fatty acid, ¼c. per lb. (p. 68).
Tankage, N.Y., 5c. per unit-ton (p. 47).

Prices Reduced

Cedarwood oil, 2c. per lb. (p. 62).
Cocoa butter, 5c. per lb. (p. 68).
Coconut oil, crude, Pac. Coast, 1¼c. per lb. (p. 68).
Copra, $12.50 per ton (p. 68).
Corn oil, crude, ¼c. per lb. (p. 68).
Refd., ¼c. per lb.
Cottonseed oil, crude, ½c. per lb. (p. 68).
Refd., ½c. per lb.
Greases, ½c. per lb. (p. 69).
Lard, cash, 1c. per lb. (p. 68).
Linseed acid, 2/10c. per lb. (p. 68).
Linseed oil, 2/10c. per lb. (p. 68).
Mercury, $2 per flk. (p. 42).
p-Nitrotoluene, 2c. per lb. (p. 32).
Oleo stearine, ½c. per lb. (p. 68).
Patchouli Oil, 25c. per lb. (p. 62).
Rosemary oil, 5c. per lb. (p. 62).
Silver, ½c. per troy oz. (p. 42).
Soybean oil, crude, ½c. per lb. (p. 68).
Refd., ¼c. per lb
Tallow, edible, ½c. per lb. (p. 68).
inedible, ½c. per lb.
Tin, ¼c. per lb. (p. 42).
p-Toluidine, 4c.-5c. per lb. (p. 52).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

Dec. 12, 1958	Dec 5, 1958	Dec. 13, 1957
110.61	110.54	107.81

Arsenic Role in Cancer Doubted

The American Cancer Society appears to know a bit more about cancer than it does about insecticides. At least it seems that way after the arguments are in from the Department of Agriculture, which has done a little researching on the matter of arsenic residues on tobacco and found there is no proof they are cancer-causing. The cancer society started the argument a short time ago when it announced that insecticide residues were being found in increasing amounts and that they could probably be among the causes of lung cancer.

The cancer society noted the parallel increase in cancer and smoking. In its journal, *Cancer*, it had this to say about arsenic sprays on tobacco:

"Although the evidence linking the arsenic in cigarette smoke to lung cancer is highly suggestive, it is felt that a sober approach to the problem with clinical and laboratory studies is needed to prove or disprove the hypothesis."

The tobacco industry, along with USDA, doubts that arsenic sprays can be a factor in lung cancers. Farmers are using less and less arsenic in their sprays these days, says the Tobacco Industry Research Committee, adding that the amount has now

—Continued on page 54

Westvaco Barium Oxide Will Rise One-Half Cent

Westvaco Mineral Products Division of Food Machinery & Chemical Corporation, New York, will raise the price on barium oxide by one-half cent a pound on January 1. The new price will be 13¾ cents a pound in carload quantities.

In announcing the price change, R. F. Moran, manager of the division, pointed out that improvements at Westvaco's plant in Modesto, Calif., have resulted in increased barium oxide quality.

In April, Westvaco upped its minimum guarantee from 89 percent to 94 percent barium oxide, and, Mr. Moran added, further increases in quality can be expected in the future.

TECHNICAL SERVICE MANAGER: James R. Biegen, appointed manager of technical service for coatings and resins by Archer-Daniels-Midland Company, Minneapolis, Minn.

Rosin Size Prices Hiked

The paper makers' chemical department of Hercules Powder Company, Wilmington, Del., has announced the following schedule of rosin size prices for the calendar quarter beginning January 1, 1959. Prices are per hundred pounds, f.o.b. southern producing points:

Pale grades—70 percent paste rosin

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Microbial Pesticide Okay

The first of what may be a series of microbial pesticides, *Bacillus thuringiensis Berliner*, has been cleared by the Food and Drug Administration for use on food and feed crops for a trial period of one year. The pesticide is a product of Pacific Yeast Products, Inc., Wasco, Calif.

FDA Commissioner George P. Larrick characterized the new pesticide as a possible useful "bacteriological warfare" agent against certain insects. He said that it is being exempted from the tolerance requirements for pesticides under the Miller law. It is the first exemption of a pesticide of this type for use on food crop directly.

Before clearing use of the new microbial pesticide, FDA required the manufacturer to provide scientific data showing the proposed use is without hazard to health.

Data showed the microorganisms were not pathogenic to warm-blooded animals. Tests in which human volunteers ate and inhaled the substance showed no evidence of ill effects.

The FDA action was taken in connection with the granting by the Department of Agriculture of a one-year experimental permit to the manufacturer of the new pesticide.

Under the USDA permit, distribution is planned to selected growers in eighteen states, Puerto Rico, Hawaii and Australia.

The substance will be applied as a dust or spray to protect crops against insect pests, including the cabbage looper, imported cabbage worm, alfalfa caterpiller and certain other moth-type insects that, in the worm stage of growth, feed on and destroy crops.

FDA will keep close tabs on the new pasticide during its year's trial. If all goes well, the manufacturer will be allowed to ask the agency to clear the product for general commercial use.

Chemicals Giving Automobiles A Speedy Race for Fourth Place In Nation's Business Economy

Chemicals are crowding the automotive industry for fourth place in sales in the nation's economy. This is the happy message O. V. Tracy had for Chemical Specialties Manufacturers Association last week at its forty-fifth annual meeting in New York. According to Mr. Tracy, who is vice-president of Esso Standard Oil Company, New York, the chemical industry has moved ahead of steel and is "fast catching up with motors" in the value of products manufactured and sold each year. Food, machinery and oil are the only industries—besides automobiles—with annual sales volumes topping the chemical industry's.

The Esso executive saw continued growth ahead for "the nation's fastest-growing industry" and intensified competition—extending from the research laboratories to delivery improvements and better packaging.

Profusion of Chemical Products

Competition and the fast pace and high productivity of chemical research, he felt, are bringing "new and better products to the market place in a profusion unmatched at any time by any other industry."

However, he warned that even companies that produce quality products can't be complacent about a continued, assured market.

George P. Larrick, Commissioner of Food and Drugs, filled in the chemical specialty makers on some of the requirements of the 1958 food additives law.

Additives introduced in 1958, he said, must be cleared with Food and Drug Administration before March 4, 1959. Those put on the market before January 1 of this year must be cleared before March 6, 1960.

These product classes are affected: Pesticides applied to processed foods, new propellants, stabilizers and emulsifiers for food in pressurized containers.

Dr. Harold Magnuson, medical director for the special health service program of the Department of Health, Education and Welfare, told CSMA that the water pollution problem needs closer scrutiny.

In this connection, he cited the advances being made in nuclear technology. Already, Dr. Magnuson pointed out, radioactive isotopes are being used widely in medicine for both research and therapy, in agriculture to develop new and better crops and in industry as tracers in chemical reaction analyses.

There are many nuclear power projects

—*Continued on page 75*

WALLERSTEIN DEVELOPMENT CHIEF: Dr. Robert C. Ottke, appointed director of commercial development for the Wallerstein Company, New York.

Chemical Firm's Curiosity, Initiative Called as Good as Money in the Bank

The curiosity and initiative of a chemical company are just as good as money in the bank. Intangible qualities they may be, but when translated into such practical business terms as research and development, they add heavily to a concern's total worth. They are the qualities that another company, interested in buying up or merging, is likely to be looking for and are often of critical importance when acquisitions are discussed.

That is the gist of a quasi-official report that has just captured the attention of the senate judiciary committee. It is the work of Prof. Murray N. Friedman, Queens College, New York, and has been made public as part of a series dealing with the US patent system.

TECHNICAL SERVICES HEAD: Yash Snider, named to head up its newly-formed technical services department by Hodag Chemical Corporation, Chicago.

Five Chemical Mergers Cited

Cited are five mergers that took place in the chemical field since 1953 in which the research and development factors figured importantly as a competitive factor favoring the amalgamations. They are part of a staff report just released by Sen. Joseph C. O'Mahoney of Wyoming, chairman of the subcommittee on patents, trademarks and copyrights. Mentioned are the following mergers:

Merck & Co. with Sharp & Dohme, Inc., in 1953; Monsanto Chemical Company with Lion Oil Company in 1955; W. R. Grace & Co. with Rare Earths, Inc., in 1955; Vick Chemical Company with National Drug Company in 1956, and B. T.

—*Continued on page 59*

Dow, US Borax Set For Research Venture

Dow Chemical Company, Midland, Mich., and US Borax Research Corporation, a wholly-owned subsidiary of United States Borax & Chemical Corporation, Los Angeles, are engaging in a joint venture to perfect an economic process for the manufacture of boron trichloride.

A research program will be conducted at Dow's Texas Division in Freeport, Tex. The joint project comes as a climax to several years of independent research in this field which both Dow and US Borax Research have been conducting.

If the venture is successful, a basis will have been established for the possible manufacture of boron trichloride by United States Borax & Chemical and Dow.

Boron trichloride is a highly reactive boron intermediate from which most of the newer and more exotic boron compounds can be made. These compounds have potential and actual uses as catalysts; high temperature polymers, high energy fuels for the space age, gasoline additives, metals refiners and fluxes.

Biscayne-Gallowhur Grows From 4 Firms

George Gallowhur, president of Gallowhur Chemical Corporation, has revealed the formation of Biscayne-Gallowhur Corporation, which merges the operations of Biscayne Chemical Laboratories Inc., Miami, Fla.; Gallowhur Chemical Corporation, Ossining, N. Y.; Ajax Chemicals, Inc., Miami, and Gallowhur Chemicals Canada, Ltd., Montreal.

Directors of Biscayne-Gallowhur Corporation will include Alexander Sachs, econ-

—*Continued on page 59*

Matchabelli Will Close Its Plant in Bloomfield

Chesebrough-Pond's, Inc., will terminate operations at its Prince Matchabelli, Inc., plant at Boomfield, N. J., during the summer of 1959.

Anthony Oladko, vice-president in charge of domestic manufacturing, said that the acquisition of Matchabelli from Vick Chemical Company on October 1 gave Chesebrough-Pond's duplicate facilities and overhead expenses at Bloomfield.

The manufacturing and distribution of the Seaforth and Matchabelli product lines, he explained, blend into Chesebrough-Pond's large cosmetics operation at Clinton, Conn.

Engineering and cost analysis studies, he added, indicate that operation of the Bloomfield plant is neither pratical nor economical on a continuing basis.

SKF Laboratories Sets Up A Research Arm in Britain

Smith Kline & French Laboratories today (December 15) announced the establishment of an independent research organization in Great Britain to supplement the firm's own research and development division in Philadelphia and to provide the company with a direct link to European science.

The new Smith Kline & French Research Institute of Great Britain will be headed by Prof. William A. Bain, who has held the chair in pharmacology at the University of Leeds since that post was created in 1946.

SKF said the establishment of a research arm on the continent has been under study since the early 1950's and that in 1955 it was decided to locate it in England. SKF bought the London firm of A. J. White in 1956 and at that time established Smith Kline & French Laboratories, Ltd., as its British subsidiary.

Until SKF, Ltd.'s $2 million building at Welwyn Garden City is completed next year, the SKF Research Institute will have headquarters in London. SKF said the institute will be fully operative by the fall of 1960.

Phenol, Phthalic Facilities Set by Reichhold (Canada)

Reichhold Chemicals (Canada), Ltd., is ready to build a sizable phenol plant and formaldehyde unit at the company's Port Moody, B.C., location.

The affiliate of Reichhold Chemicals, Inc., White Plains, N.Y., will also build another phthalic anhydride plant at St. Terese, Quebec.

The plants are expected to handle the Canadian firm's increased captive needs, as well as higher consumer demand for domestic and export purposes.

Thiokol Chemical Now THI on the Exchange

Thiokol Chemical Corporation, Bristol, Pa., has just been listed on the New York Stock Exchange. It will be known on the exchange trading floor by the symbol THI.

The company's stock had previously been traded on the American Stock Exchange. Thiokol was organized in 1929 to market the first synthetic rubber produced in the United States. The company entered the rocket field in 1948.

Aerosol Industry's Prediction at 10: Billion Units by '65

The aerosol industry, this year marking its tenth anniversary, is confident it can turn out a billion pressurized cans a year by 1965.

Production in 1957 amounted to 390 million units, worth about $390 million at retail, and estimates of this year's output range from 400 to 500 million packages.

Of the more than 100 different types of products introduced in pressure-packed containers since 1946, six of them account for 80 percent of today's volume.

According to a survey conducted for E. I. duPont de Nemours & Co., Wilmington, Del., hair sprays and insecticides top the list.

Some 45 percent of the nation's housewives purchased one or more cans of such products in the last six months.

Other product types in the top half-dozen in consumer popularity are deodorants, shaving creams, colognes and paints and lacquers.

As industry analysts see it, aerosols are only at the beginning of their growth.

Pharmaceuticals, personal toiletries and industrial applications of the push-button cans offer tremendous opportunities for expansion.

The cosmetics industry, which has had great success with aerosols on such products as hair sprays, shaving creams and room odorants, hasn't done so well on others.

For instance, hand lotions, shampoos and creams have proven dismal failures as aerosols despite the planning and thought that has gone into their packaging and promotion.

Authority for this is Dr. D. H. Powers

—*Continued on page 70*

to users and potential users of Chlorinated Isocyanuric Acids:

3 big reasons to remember

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CHLORINATED DRY BLEACH

1. New capacity! All-new 6-million-pound Westvaco plant now on stream to meet growing demand!
2. New versatility! Four different forms to meet your requirements including a new potassium salt!
3. New opportunities! For makers of home and industrial bleaches, cleaners, sanitizers!

These organic compounds offer a wide range of available chlorine content and other properties, suited to a broad range of products and processes.

They are compatible with many detergent-type salts and synthetics, have good thermal stability, and low toxicity. CDB-59, CDB-60 and CDB-70 have high moisture resistance and good odor characteristics. Low pH of CDB-70 and CDB-85 offers unique possibilities in numerous applications.

Germicidal activity of CDB's conforms to U.S. Public Health Service Code.

All four are ready now for shipment from our So. Charleston, W. Va., plant. Our representatives will assist in choosing the form best-suited to your specific requirements. Write today for additional information.

Formula	CDB-59 $Cl_2K(NCO)_3$	CDB-60 $Cl_2Na(NCO)_3$	CDB-70 $Cl_2H(NCO)_3$	CDB-85 $(CINCO)_3$
Molecular weight	236.06	219.96	197.97	232.47
Average available Chlorine, %	57.0	59.7	69.9	88.5
Melting point ° C	230*	230-250*	225	225-230
pH (saturated solution)	7.3	6.1	2.6	2.9
Solubility (g/100 g. soln.) H_2O at 26.8°C	10.3	24.8	2.57	1.2
Color	white	white	white	white
Physical form	fine powder	fine powder	fine powder	fine powder

*decomposes without melting

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CSMA Package Award Is Won by Food Aerosol

For the first time since Chemical Specialties Manufacturers Association initiated its packaging design awards, a food aerosol has taken top honors.

Award for the most attractively designed aerosol package of 1958 last week went to Andersen Foods, a division of Heublein, Inc., Menlo Park, Calif., for its "Sizzl-Spray" barbecue sauce. Besides the all-around award, it also won a first in the food aerosols category.

More than 200 entries from dozens of prominent marketers competed for the aerosol industry's top packaging honors in eleven product-type categories.

TGA Unit Advised: Let Consumer Judge

Let the consumer be the judge, as he will eventually be in the market place. That is the advice of Robert E. Spinner, president of Marketscope Research Company, when it comes to putting a new product on the market.

Mr. Spinner points out that the use of consumers leads to a greater "representativeness" and is also a comparatively inexpensive method.

The speaker made his comments last week before the scientific section meeting of the Toilet Goods Association in New York.

The three common approaches used to evaluate product change and new product introduction are the use of the "expert" approach, the employee panel and the laboratory approach, Mr. Spinner pointed out.

The speaker said that the first method could find the producer of a new prod-

—Continued on page 45

Polyvinyl Chloride Unit Is Dedicated by Borden

A $4-million addition to Borden Chemical Company's polyvinyl chloride plant in Leominster, Mass., was dedicated formally last week.

The plant addition, started in November, 1957, has increased Borden's polyvinyl chloride production capacity at Leominster from 12 million to 38 million pounds per year.

Meetings On Page 55

Pfizer's Foreign Chief Views West-Soviet Economic Struggle As Start of Third World War

The current economic struggle between the West and the Soviet-bloc countries is actually the Third World War. Such is the opinion of an expert on international trade—John J. Powers, jr., president of Pfizer International, a unit of Chas. Pfizer & Co., Brooklyn, N.Y. Mr. Powers also claims that the US government is keeping its most vigorous weapon—American industry—on the shelf in the face of the Communist economic threat.

The enemy has devised new technics and is launching a major economic offensive on a world-wide basis, while we are still in the perilous position of preparing only for a shooting war that may never come," Mr. Powers believes.

He made these statements last week in New York at the mid-year meeting of the Pharmaceutical Manufacturers Association.

Limitations of Private Industry

"On the real battleground—the underdeveloped countries," Mr. Powers told the gathering, "private industry's effort must inevitably be limited by the need to protect stockholder investment. This is where government can offer major help, and simply by diverting a part of present foreign-aid funds for long-term loans to American industry at low interest rates. I don't mean subsidies, I mean loans repayable in local currencies from the earnings of local enterprise. Unfortunately, the government is meeting the need for bold loan policies with business-as-usual banking answers—and that just isn't good enough.

"Vigorous new measures like this are necessary to permit and encourage American private industry to counter the Soviet offensive by operating abroad as a major expression of US international policy," Mr. Powers said. He called for drastic revision of US economic policy affecting American companies engaged in overseas trade and investment.

"Recent Russian international trade disruptions in aluminum, tin and other commodities are as much a sign of war as the shooting in Quemoy and the political maneuvering in Berlin and the Middle East," he pointed out. "The Soviet bloc clearly demonstrated that it will dump,

—Continued on page 60

Polyethylene in Big Favor For Liquid Floor Polishes

A market study just completed by Allied Chemical Corporation, New York, reveals that approximately 70 percent of the manufacturers of liquid floor polish use polyethylene in their products today, a growth from less than 1 percent three years ago.

Projected market figures show that 85 percent of the polish companies will use this versatile plastic by the end of 1959, with a proportionate increase in the paste polish market.

CSMA'S NEW PRESIDENT: Donald M. King of Masury-Young Company, Boston, Mass., who last week was elected president of the Chemical Specialties Manufacturers Association. He succeeds James E. Ferris of Hooker Chemical Corporation, Niagara Falls, N. Y., in the post.

Buyers Plan to Spread Meeting Over 2 Cities

The Chemical Buyers Group of the National Association of Purchasing Agents will spread its mid-winter meeting program from Chicago to New York. The same topics will be discussed in two cities and in some cases by the same speakers.

The theme will be, "Chemical Buying—the Challenging Future." The first session will be held January 22 in the Congress hotel, Chicago, and the second February 3 in the Commodore hotel, New York.

Arthur F. Kroeger, of A. & H. Kroeger Organization, will be the luncheon speaker at both meetings. His topic will be "An Economical Chemical Forecast."

These papers also will be heard at both meetings: "Changing World Chemical Markets," by W. D. Morrison, Food Ma-

—Continued on page 54

Chemical, Drug Outlook for 1959 Seen Wonderful

How does the future look for the chemical industry as a whole and, while the matter is being considered, how does it shape up for that one specific section comprised of the drug makers?

Wonderful, on both counts! That is the opinion of the financial advisers, who have just taken a look into the dollars and cents of the matter and pronounced the future sound. The review is found in "The Value Line Investment Survey," a financial report issued by Arnold Bernhard & Co., New York.

1959—A Year for Confidence

"The chemical industry can look forward to 1959 with a great deal of confidence, despite the fact that there are problems ahead," the review says, and then goes on to add these prognostications:

- "As production rises towards the optimum operating rate, profit ratios will widen."
- "Growth in new product lines will continue."
- "Break-in costs will decline."
- "Greater demand will allow higher prices in many areas."

However, says the review, optimism is not exactly unbridled in the chemical field. It points out that there will be three major operating problems, namely: overcapacity, greater competition and rising costs.

The report goes on to predict how the chemical business wi l come out after the effects of the 1957-58 recession. It foresees a "pronounced cyclical recovery in earning power."

This is how the "Value Line" survey sees it:

"An insight into the magnitude of the prospective recovery is given by the chemical industry's performance during and after the 1953-54 recession. At the bottom of the 1954 business dip, chemical pre-tax profits were running some 20 percent be-

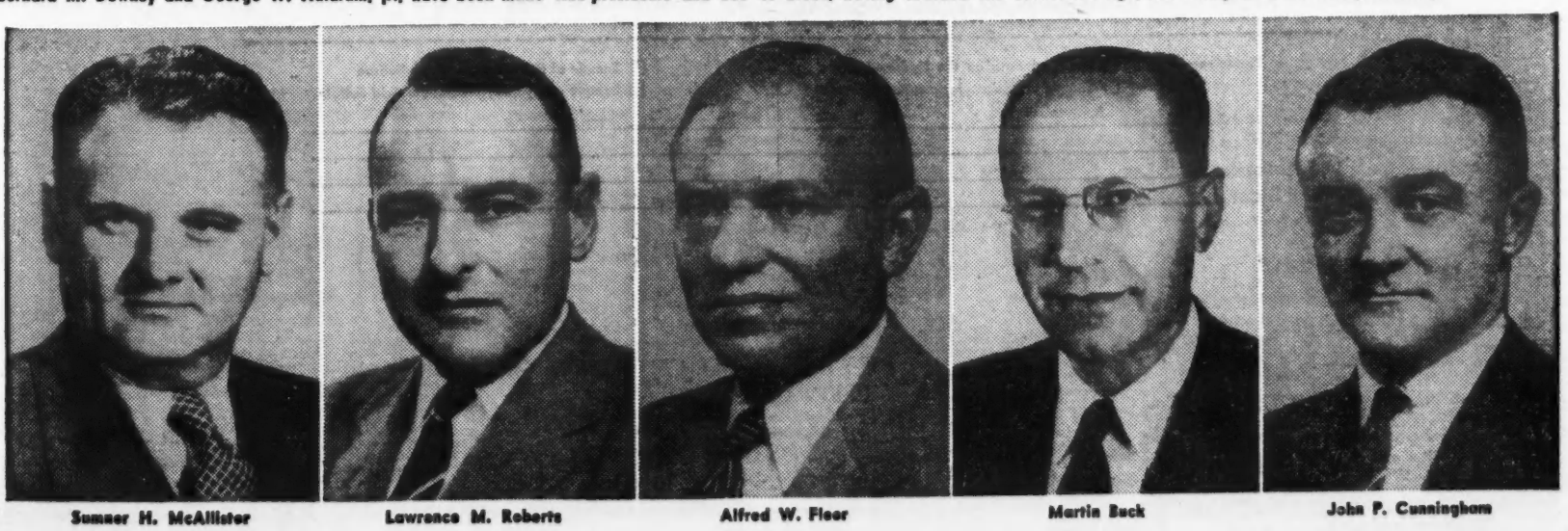
—Continued on page 53

Citronella Oil Exports Under Ban by Formosa

A ban on exports of citronella oil from Formosa was reported last week by the Foreign Agricultural Service. The agency said that Formosa's Foreign Exchange and Trade Control Commission has announced that since exports of citronella oil in 1958 have reached a predetermined level of 4 million pounds, further exports are prohibited indefinitely.

Exports will be resumed, it was added, when domestic purchases have reached 1.5 million pounds.

SHELL CHEMICAL TO HAVE FIVE INTEGRATED DIVISIONS: Under a reorganization plan which goes into effect on January 1, Shell Chemical Corporation, New York, will have five fully-integrated divisions. A new agricultural chemical division will be headed by Sumner H. McAllister, now manager of Shell's agricultural chemical sales division. The ammonia division, already an integrated operation, will be headed by Lawrence M. Roberts, now manager of operations in that division. A new industrial chemicals division will be headed by Alfred W. Fleer, now manager of manufacturing, technical. This unit will handle all products now sold by the chemical sales division, except for plastics and resins. A new plastics and resins division will be headed by Martin Buck, who is currently assistant to the president of Shell Chemical. A new synthetic rubber division will be headed by John P. Cunningham, now manager of the synthetic rubber sales division. Under the new setup, Shell's head office will be mainly concerned with matters involving more than one division, or of interest to the company as a whole. Meanwhile, Bernard M. Downey and George W. Huldrum, jr., have been made vice-presidents and Leo V. Steck, having reached the retirement age, has relinquished his vice-presidency.



Sumner H. McAllister | Lawrence M. Roberts | Alfred W. Fleer | Martin Buck | John P. Cunningham

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New applications discovered daily

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FOR OXIDIZING The hydroxylamines are probably mild oxidizing agents in alkaline solutions. Further explorations called for.

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COMPANY.....

STREET.....

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CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, Dec. 12 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns ..... lb. 3.25 - 4.25
Acacia (see Arabic gum).
Acenaphthene, below 92.5 C. m.p., dms., works lb. .40 - —
Above 92.5 C. m.p., bbls., dms., lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., works, lb. .12 - —
dms., l.c.l., works ..... lb. .13½- —
tanks, works ..... lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .32½- —
bbls., bgs., ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP, bbls., 225-lb. dms any quantity lb. .79 - —
100-lb. dms., any quantity lb. .84 - —
Acetic acid, coml. or redist., 28%, bbls ..100 lbs. 4.60 - —
56%, bbls. ..... 100 lbs. 6.25 - —
70%, bbls. ..... 100 lbs. 8.95 - —
80%, bbls. ..... 100 lbs. 10.45 - —
Acetic acid, glacial, syn., CP, dms., dlvd ..100 lbs. 22.00 -23.00
tech., dms., c.l., dlvd. ...100 lbs. 13.75 - —
dms., l.c.l., dlvd. .....100 lbs. 14.25 - —
tanks, dlvd. .....100 lbs. 10.00 - —
USP, cbys., dlvd ..... 100 lbs. 31.00 -32.00
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16¼- —
aluminum ret. dms., l.c.l., dlvd. E., lb. .17½- —
tanks, dlvd. E. ..... lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib. dms., l.c.l., dlvd. ..... lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., l.c.l., dlvd. ..... lb. 1.36 - —
Acetoacet-o-toluidide fib. dms., c.l., dlvd lb. .62 - —
fib. dms., l.c.l., dlvd. ..... lb. .63 - —
Acetone, CP, dms., c.l., dlvd. .. lb. .11 - —
dms., l.c.l., dlvd. ..... lb. .12 - —
tanks, dlvd. ..... lb. .08½- —
Acetonitrile, dms., c.l., works ... lb. .45 - —
dms., l.c.l., works ..... lb. .45½- —
Acetophenetidin, USP, dms., works, frt. equald lb. 1.22 - 1.24
Acetophenone, cns., dms. ..... lb. .42 - 1.30
tech., dms., c.l., works ..... lb. .37 - —
dms., l.c.l., works ..... lb. .37½- —
tanks, works ..... lb. .35 - —
N-Acetyl-p-aminophenol, 1,000-lb. lots, frt. adjusted lb. 1.45 - —
smaller lots, dms., same basis lb. 1.55 - 1.63
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .19 - —
cs., l.c.l., ex whse. ..... lb. .24½- .30
Acetylsalicylic acid, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63½- —
USP, standard, fine, cryst. gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots, same basis lb. .58½- —
Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .36½- —
tanks, frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .40½- —
tanks, frt. alld. E. of Denver lb. .37 - —

Acids

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Acronite root, bls. ..... lb. .50 - .55
Acrolein, tech. dms., c.l., works lb. .47 - —
dms., l.c.l., works ..... lb. .47½- —
tanks, works ..... lb. .46 - —
Acrylic acid, glacial, dms., l.t.l., dlvd. lb. .25 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .30 - —
dms., l.c.l., l.t.l., frt. equald.... lb. .31 - —
tanks, frt. equald ..... lb. .27 - —
Adeps lanae (see lanolin).

Abies Siberica Oil—Ammonium Bicarbonate

Adipic acid, bgs., c.l., dlvd. ..... lb. .32½- —
bgs., l.c.l., dlvd. ..... lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 1.90 - 2.00
powd., 30 mesh., fib., dms lb. 2.50 - —
dl-Alanine, dms., works ..... lb. 6.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms. ..... lb. .65 - .85
Albumin, egg, edible, cryst., powd., bbls lb. 1.13 - 1.15
flake, bbls. ..... lb. 1.09 - 1.11
tech., cryst., bbls. ..... lb. 1.08 - 1.10
Aldol, 95%, dms., works ..... lb. .23 - —
Denaturing grade, dms. ..... gal. 2.15 - —

Alcohols

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .93 - —
fib. dms., l.c.l., dlvd ..... lb. .98 - —
Aletris root, bgs. ..... lb. 1.75 - 1.85
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.38 - —
Alkali blue, toner, litho flushed, 125-lb. bbls. same basis. lb. 1.35 - —
Alkali blue prices 1c. higher W. of Rockies.
Allethrin, 90%, dms., frt. alld lb. 28.80 -28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½% dms. frt. alld. ..... lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l., dlvd. .... lb. .32½- —
dms., l.c.l., dlvd. ..... lb. .33½- —
tanks, dlvd. ..... lb. .30 - —
Allyl bromide 55-lb. cbys. 5,005 lbs. or more, works lb. 1.47 - —
55-lb. cbys., 1,045 to 4,950 lbs., works lb. 1.52 - —
55-lb. cbys., 55 to 990 lbs. works. lb. 1.57 - —
Allyl chloride, dms., c.l., dlvd. .. lb. .17½- —
dms., l.c.l., dlvd. ..... lb. .18½- —
tanks, dlvd. ..... lb. .15 - —
Allyl isocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde).
Almond oil, nat., bitter, f.p.a., bots. lb. 2.75 - 3.45
NF, bots. ..... lb. 3.00 - 3.30
sweet, USP, cns., dms..... lb. .90 - 1.40
Aloe, Cape, cs. ..... lb. .50 - —
powd., cs. ..... lb. .75 - —
Curacao, kgs. ..... lb. .60 - —
powd., kgs. ..... lb. .80 - —
Aloin, USP, bbls., dms., kgs. .... lb. 3.25 - 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene)
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works .....100 lbs. 5.05 - —
powd., dms., works.....100 lbs. 5.20 - —
USP, burnt, dms. ..... lb. .20 - .21
hydrous, dms. ..... lb. .07¾- .08
Alum, potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works .....100-lbs. 5.30 - —
powd., dms., works ....100 lbs. 5.45 - —
USP, burnt., dms. ..... lb. .20 - .21
hydrous, dms. ..... lb. .07¾- .08
Alum, potash-chrome, dms. ..... lb. .17 - —
Alumina, calcined, bgs., c.l., works. lb. .05 - —
bgs., l.c.l., works ..... lb. .05½- .06
Aluminum acetate, basic soln., 24%, bbls., l.c.l., works lb. .14 - —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms., l.c.l., works ..... lb. .16½- —
cryst., dms., c.l. works 100 lbs. 21.00 - —
dms., l.c.l., works 100 lbs. 21.50 - —
soln., 32°, cybs., c.l., works .. lb. .0495- —
cbys., l.c.l., works .... lb. .0555- .1325
tanks, works .....100 lbs. 3.45 - —
NF, gran., dms., works ..... lb. .31 - .33
Aluminum fluoride, tech., anhyd., bgs., c.l., works lb. .17½- —
bgs., l.c.l., works ..... lb. .18¼- .20¼
Aluminum fluoride in fib. dms. 0.35c. per lb. higher
Aluminum formate, basic soln., dms., c.l., works lb. .12 - —
dms., l.c.l., works ..... lb. .12½- —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .03½- —
bgs., 20,000-40,000 lb. lots, same basis lb. .03¾- —
bgs., 2,000-20,000 lb. lots, same basis lb. .04¾- —
bulk, c.l., same basis lb. .03¼- —
Aluminum hydroxide, dried, USP XV, fib. dms., works lb. .82½- —
fib. dms., contract, works lb. .79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
fib. dms., contract, works. lb. .18 - —
Aluminum hydroxide, tech., powd. (See Aluminum hydrate).
Aluminum metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2680- —
pigs, 10,000-lb. lots, frt. alld lb. .2470- —
Aluminum oxide, amorphous (See Alumina, calcined).
Aluminum paste, lining, extra-fine, dms lb. .69¼- —
Standard grade, dms. lb. .67 - —
Aluminum powder, lining, extra-fine, dms lb. 1.11 - —
Standard grade, dms. ..... lb. .81 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Aluminum resinate, precip., 2.1% t.t.l., dms lb. .36¼- —
Aluminum stearate, dibasic, ctns., c.l lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Monobasic, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Tribasic, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton 41.00 - —
grd., bulk, c.l., same basis ton 40.00 - —
lump, bgs., c.l., same basis ton 44.00 - —
Coml., iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.60 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 6.30
USP, gran., dms., works .... lb. .30 - —
powd., dms., works ..... lb. .37 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots ..... oz. 6.50 -10.00
p-Aminoacetanilide, frt. alld. .... lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., l.c.l., dlvd. ..... lb. .485 - —
tanks, dlvd. ..... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., l.c.l., frt. alld. ..... lb. .45 - —
tanks, frt. alld. ..... lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. ..... lb. 2.50 - —
p-Aminophenol, dms., frt. alld. ... lb. 1.15 - —
Aminophylline, USP, 100-lb. dms lb. 3.55 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt, adjusted lb. 3.70 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald E. of Rockies. ton 84.00 - —
refrigeration, tanks, works, frt. equald E. of Rockies ton 86.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton 87.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal gray, bgs., c.l., works, frt, equald. 100 lbs. 6.25 - —
bgs., l.c.l., same basis 100 lbs. 6.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib dms. 1,000-lb lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., c.l., works ton 324.50 - —
dms., ton lots, ex whse. ton 407.50 - —
dms., smaller lots, ex whse. ton 412.50 - —
Ammonium bicarbonate, dom., dms., c.l., works. 100 lbs. 7.00 - —
dms., l.c.l., works ..... 100 lbs. 9.00 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed
amorph.	amorphous
AMP	American melting point
anhyd.	anhydrous
AOAC	Association of Official Agricultural Chemists
a.p.a.	available phosphoric acid
approx.	approximately
artif.	artificial
ASTM	American Society for Testing Materials
Atl.	Atlantic
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C	centigrade
cbys.	carboys
CD	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
coml.	commercial
conc.	concentrated
CP	chemically pure
cps.	centipoises
cryst.	crystalline
cs.	cases
ctns.	cartons
cyls.	cylinders
d-	dextro
dbl.	double
denat.	denatured
dest-dist.	destructively—distilled
dl-	dextrolaevo
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E	east
e.p.	end point
equald.	equalized
exp.	expressed
Ext.	external
F.	fahrenheit
ferment.	fermentation
f.f.a.	free fatty acid
f.f.c.	free from chlorine
fib.	fiber
f.o.b.	free on board
f.p.a.	free of prussic acid
frt.	freight
gal.	gallon
gran.	granular
grd.	ground
I&a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
l-	laevo
lacq.	lacquer
lb.	pound
l.c.l.	less than carlots
l.t.l.	less truckload
liq.	liquid
mfrs.	manufacturers
m-	meta
m.a.p.	mixed aniline point
min.	minimum
m.p.	melting point
N-	nitrogen
n-	normal
nat.	natural
neut.	neutral
NF	National Formulary
NNR	New and Nonofficial Remedies
No.	number
nom.	nominal
o-	ortho
ord.	ordinary
oz.	ounce
p-	para
Pac.	Pacific
pf.	proof
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD	specially denatured
s.d.	single distilled
S E.	southeast
sec.	secondary
secs.	seconds
s.g.	specific gravity
shipt.	shipment
soln.	solution
s.u.	standard unit
syn.	synthetic
tanks.	railroad tankcars
tech.	technical
tert-	tertiary
t.l.	truck loads
t.w.	tank wagons
USP	U. S. Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
W.	west
whse.	warehouse
w w.	water-white

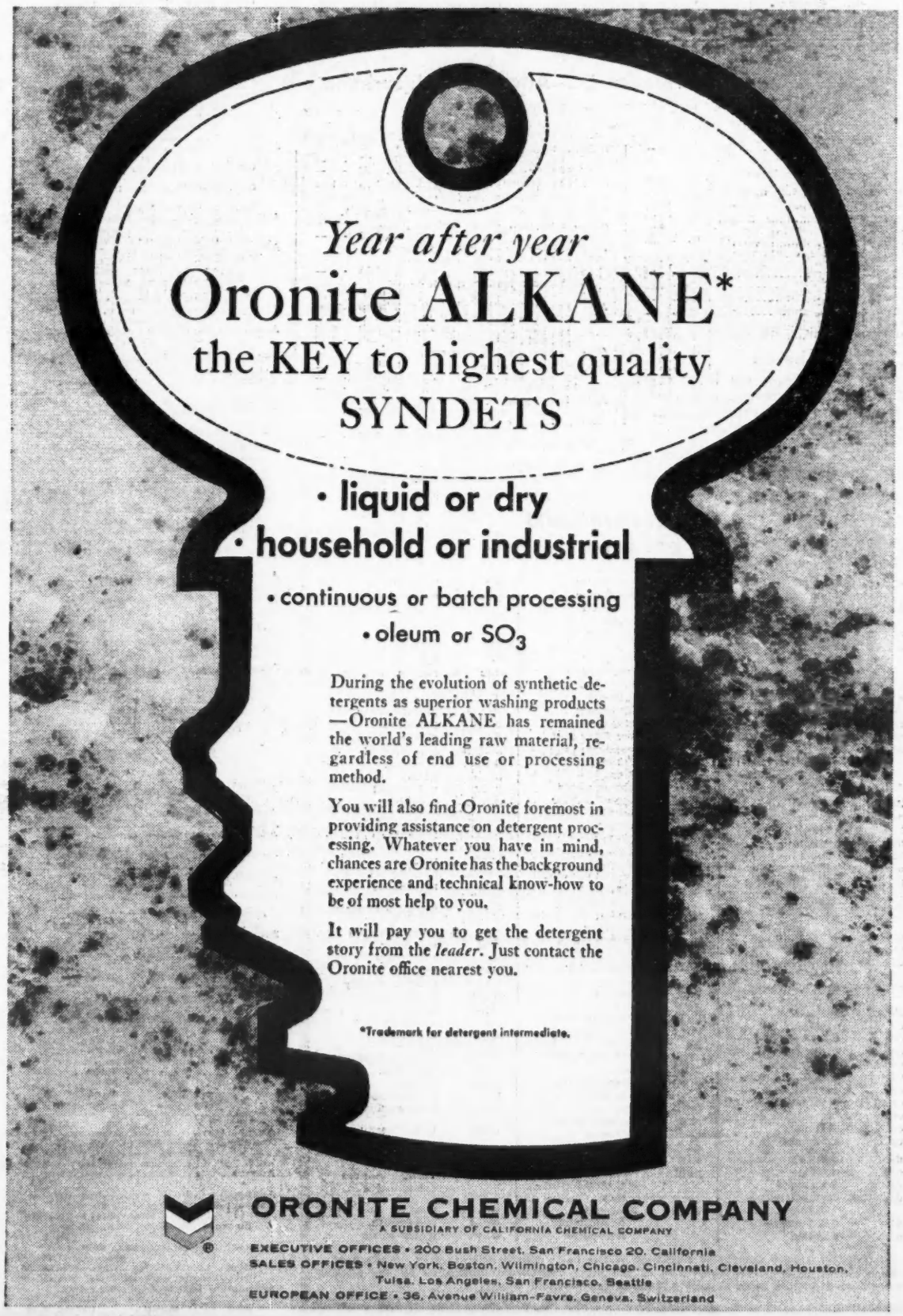
A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Ammonium bichromate, dms., works. lb. .42 - .43
Ammonium bifluoride, dms., dlvd lb. .2145- .2245
Ammonium bromide, NF, gran., bbls. lb. .45 - —
Powdered ammonium bromide 10c. per lb. higher.
Ammonium carbonate, USP, lump, dms., c.l. lb. .15½- —
Ammonium chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
bgs., l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., fib. dms. lb. .17¼- —
Ammonium citrate, dibasic, bbls. lb. 77 - —
Ammonium dichromate (see Ammonium bichromate).
Ammonium fluoride (see Ammonium bifluoride).
Ammonium gluconate, tech., dms. lb. .45 - —
Ammonium hydroxide (see Ammonia aqueous).
Ammonium iodide, NF, bots., dms., lb. 4.26 - 4.38
Ammonium lauryl sulfate, dms., c.l., frt. alld. lb. .19 - —
dms., l.c.l., frt. alld. lb. .20 - —
tanks, frt. alld. lb. .18 - —
Ammonium linoleate, 80%, dms., works lb. .50 - .55
Ammonium lignin sulfonate bgs., c.l., works 100 lbs. 3.25 - —
bgs., l.c.l., works 100 lbs. 3.40 - 3.65

Ammonium molybdate, CP, cryst., fib. dms., 15,000 lbs., works lb. 1.22 - —
fib. dms., 2,000-lb. contracts, works lb. 1.23 - —
single fib. dms., works lb. 1.24 - —
Ammonium nitrate, dom., fertilizer grade, 33.5% N bags., f.o.b., works ton 65.00 - —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 ton, base price ton 65.00 - —
western, bgs, c.l., f.o.b. cars, Los Angeles ton 79.69 - —
with dolomite, 20.5% N, bgs., c.l., Hopewell, Va ton 44.50 - —
Ammonium oxalate, tech., fine gran., powd., dms. lb. .28½- .34½
Ammonium pentaborate, gran., bgs., c.l., works ton 193.00 - —
bgs., ton lots, ex whse. ton 284.50 - —
bgs., smaller lots, ex whse ton 289.50 - —
Ammonium pentaborate powder $10 per ton higher.
Ammonium persulfate, tech., dms., 10-ton lots or more, works. lb. .18 - —
dms., smaller lots, works lb. .20 - .23
Ammonium phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium phosphate, dibasic, NF V, bbls., dms lb. .46 - —

Ammonium phosphate, tech., bgs., c.l., works, frt. equald. lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium silicofluoride, dms., works lb. .11¾- .13¼
Ammonium sulfamate bgs., c.l., t.l., works lb. .19 - —
bgs., l.c.l., works lb. .20½- .27
Ammonium sulfate, standard granular, bulk, f.o.b. works, base price ton 32.00 - —
purif., bgs., f.o.b. works lb. .08½- .15
large granular, bulk, c.l., works. ton 35.00 - —
bgs., c.l., works ton 40.00 - —
Tech., bulk, c.l., t.l., works ton 52.00 - —
bgs., c.l., t.l., works ton 56.00 - —
bgs., l.c.l., t.l.l., works - 100 lbs 3.20 7.20
Ammonium sulfide, liq., 40-44%, tanks, frt., equald., 100% basis ton 160.00 - —
Ammonium sulfocyanide, tech (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms. c.l. works lb. .20 - —
dms., l.c.l., works lb. .22 .26
tech., soln, 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycollate, coml., cbys., 100% basis lb. 1.35 1.65
Highly purif., cbys 100% basis. lb. 1.70 1.96
d-Amphetamine hydrochloride, dl basic, bots lb. 17.50 - 23.00
dl-Amphetamine hydrochloride, dl-basic, bots lb. 4.50 6.00
d-Amphetamine hydrochloride, monobasic, dms lb. 17.50 - 21.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots lb. 15.00 - —

dl-Amphetamine phosphate, dms lb. 4.20 - 5.00
d-Amphetamine sulfate, fib. dms., lb. 15.00 - 17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 - 5.00
Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E. of Rockies lb. .18½- .19
dms., l.c.l., same basis lb. .19½- .20
tanks, same basis lb. .16 - .16¼
Amyl acetate, ex pentane, reg. dms., c.l., dlvd lb. .19 - —
dms., l.c.l., dlvd. lb. .20 - —
tanks, dlvd. lb. .16½- —
Syn., oxo process, dms., c.l., dlvd. lb. .19 - —
dms., l.c.l., dlvd. lb. .20 - —
tanks, dlvd. lb. .16½- —
Tech., dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Amyl alcohol, ex fusel oil (see Fusel oil refd.).
Amyl alcohol, ferment, refd., 128°-132°C., dms., l.c.l., dlvd lb. .43 - —
refd., ACS grade, dms., l.c.l., dlvd lb. .45 - —
Amyl alcohol, ex pentane, mixed, amyls dms., c.l., frt. alld. lb. .19 - —
dms., l.c.l., frt. alld lb. .20 - —
tanks, frt. alld lb. .16½- —
primary, dms., c.l., frt. alld. lb. .19¾- .20¼
dms., l.c.l., frt. alld lb. .20¾- .21¼
tanks, frt. alld lb. .17¼- .17¾
secondary, dms., c.l., works, frt. alld lb. .19 - —
dms., l.c.l., works lb. .20 - —
tanks, works lb. .17 - —
tertiary, synthetic, dms., c.l., frt. alld. E lb. .17 - —
dms., l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .14½- —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works lb. .41½- —
dms., l.c.l., works lb. .42½- —
tanks, works lb. .39½- —
Amyl alcohol, 2-pentanol, dms., c.l., works lb. .65 - —
dms., l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Amyl n-butyrate, dms. lb. 1.00 1.25
Amyl cinnamic aldehyde, dms lb. 1.75 2.20
p-tert Amyl phenol, dms., c.l., works. lb. .26¾- —
dms., l.c.l., works lb. .27¾- —
Amyl salicylate, cns., dms. lb. 80 1.10
Amyris oil, dms lb. 1.20 - 1.75
Anethole, USP, cns., dms lb. 1.25 1.50
Tech., dms. lb. .85 .90
Angelica root, dom., bls lb. .60 - .65
Angelica root oil, bots lb. 120.00 - 140.00
Angelica seed oil, bots. lb. 120.00 - 130.00
Aniline, dms., c.l., frt. alld lb. .20 - —
dms., l.c.l., frt. alld. lb. .21 - —
tanks, frt. alld. lb. .18 - —
Aniline oil (see Aniline).
Aniline salt, dms., c.l., truckloads, 20,000 lbs. min., frt. alld. lb. .33 - —
dms., l.c.l., same basis lb. .35 - —
Anise oil, USP, dms. lb. 2.00 4.05
Anise seed, Mexican, bgs lb. .20 - —
Spanish, bgs. lb. .20 - —
Anisic aldehyde, dms. lb. 1.50 2.20
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
dms., l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —
p-Anisidine, dms., works lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l., f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5%, bbls., c.l., frt. alld lb. .83 - —
bbls., l.c.l., same basis lb. .86 - —
Electrical grade, bbls., l.c.l., same basis lb. 1.10 - —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .29 - —
cs., c.l., mines lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld. lb. .24½- —
bgs., l.c.l., frt. alld. lb. .26 - —
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb. dms lb. .69½- —
USP, powd., 250-lb. dms. lb. .74½- —
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, 25-oz. lots oz. 35.60 - —
Apricot kernel oil, USP, dms. lb. .85 - 1.25
Arabic gum, amber sorts, bgs lb. .21 - .23
USP, powd., bbls. lb. .26 - .29
Areca nuts, powd., bbls. lb. .13 - —
Arecoline hydrobromide, NF, bots., tins oz. 3.75 - —
l-Arginine, free base, dms., 10-kilo lots or more kilo. 90.00 - —
l-Arginine glutamate, dms., 10-kilo lots or more kilo. 60.00 - —
l-Arginine monochloride, dms., 10-kilo lots or more kilo. 60.00 - —
Arnica flowers (true Montana), bls. lb. 1.40 - 1.50
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works lb. .031 - —
Arsenic trioxide, USP, dms lb. .48 - —
Arsenic white, powd., bbls., c.l., works lb. .04½- —
bbls., l.c.l., works lb. .06½- .07½
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons deep shades, bbls. lb. 3.70 - —
Light shades, bbls. lb. 2.85 - —
Maroon shade, bbls. lb. 3.70 - —
Asafetida gum, cns. lb. .40 - —
Powd. bbls., dms. lb. .85 - —
Asbestine (see Talc fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons) mines ton 86.00 - —
7D, c.l. (30 tons) mines ton 75.00 - —
7F, c.l. (30 tons) mines ton 71.00 - —
7H, c.l. (30 tons) mines ton 61.00 - —
7K, c.l. (30 tons) mines ton 50.00 - —
7M, c.l. (30 tons) mines ton 44.00 - —
7R, c.l. (30 tons) mines ton 43.00 - —
7RF, c.l. (30 tons) mines ton 44.00 - —
7T, c.l. (30 tons) mines ton 41.00 - —
7TF, c.l. (30 tons) mines ton 44.00 - —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP dms., 25-100 kilo lots kilo. 10.00 - —
dms., 10-kilo lots kilo. 10.35 - —
dms., 5-kilo lots kilo. 10.75 - —
bots., 1-kilo lots kilo. 12.00 - —
bots., 500-gram bots. kilo. 12.50 - —
Ash black (see Barium sulfide).
Asphalt, gilsonite, black jet, bgs., c.l., mines ton 40.00 - —
ex-whse, N. Y., N. J ton 86.50 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton 35.00 - —
select, 350°F. fusing pt., bgs., c.l., mines ton 41.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ton 40.00 - —
Manjak No. 10 crude, dms., works. lb. .07 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion tanks tankwagon, refy. gal. .09½- —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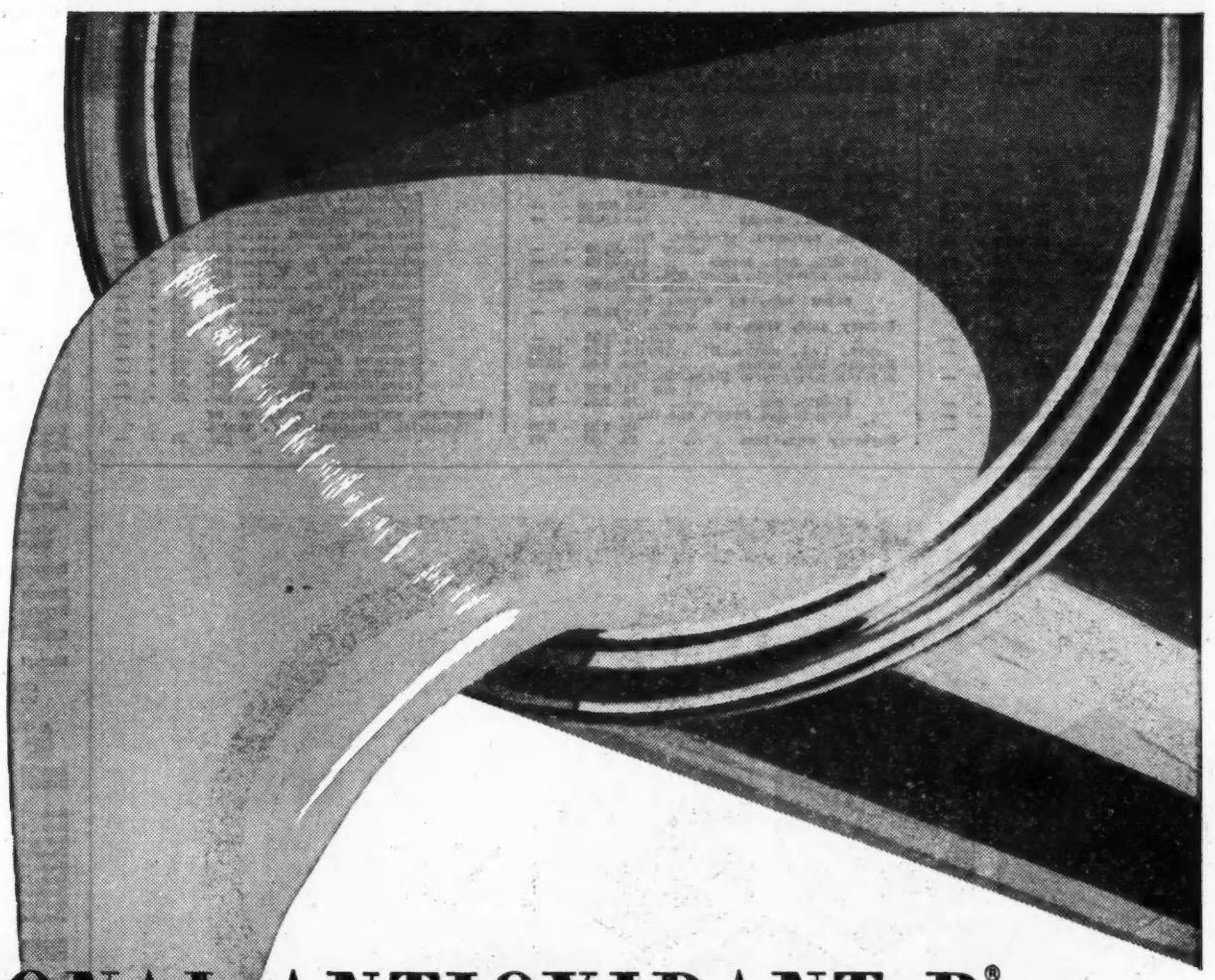

NATIONAL ANTIOXIDANT B®

keeps it flowing to the last brushful!

National Antioxidant B adds a really worthwhile selling feature to your paint at lower-than-ever cost!

Only 1 to 4 lbs. per 100 gallons is all it takes to prevent skinning over in the can . . . eliminate the need for straining . . . and customer dissatisfaction. There is no appreciable change in drying time, durability, odor or color retention.

National Antioxidant B is based on the essential ingredient that effectively retarded skinning in a wide range of formulations during the most exhaustive, unbiased tests ever reported*.

Also available at new low cost is National ASA®, preferred for some formulations. For odorless paints National Antioxidant D® is recommended.

We will gladly send samples of all three for your evaluation.

*As reported in Official Digest, Paint & Varnish Production Clubs, November 1956.

NATIONAL ANILINE DIVISION
40 RECTOR STREET, NEW YORK 6, N. Y.
Atlanta Boston Charlotte Chattanooga Chicago Greensboro
Los Angeles Philadelphia Portland, Ore. Providence San Francisco

Allied Chemical

Asphalt—BON Acid Maroons

Asphalt, petroleum, steam-refd., 50-80 penetration, tanks, tankwagon, refy ton 21.00 - —
85-300 penetration tanks, tankwagon, refy ton 20.00 - —
Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins ..... oz. 5.75 - 6.50
Atropine sulfate, USP, bots. ..... oz. 5.00 - 5.50
Avocado oil, f.o.b. Calif., cns. ..... lb. 2.25 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .65 - —
less than 1,000,000,000 units. 50,000 units. .70 - —
Balm of Gilead buds, dried, bgs lb. 1.25 - 1.35
Barberry root bark, bgs. ..... lb. .28 - .30
Barbital, NF, 100-lb. dms. ..... lb. 4.50 - —
Barbital sodium, NF, dms. ..... lb. 4.75 - —
Barium carbonate precip. bgs., c.l., works ton. 111.50 - —
bgs., smaller lots, works ton. 136.50 - —
Barium chlorate, dms., works lb. .33 - .41
Barium chloride, anhyd. bgs., c.l., works ton. 176.00 - —
bgs., l.c.l., works ..... ton. 196.00 - —
Barium chloride, NF, cryst., 100 lb. dms lb. .22 - —
Tech., cryst., bgs., c.l., works, 100 lbs. 7.00 - —
bgs., l.c.l., works ..... 100 lbs. 8.00 - —
Barium chromate, bgs. frt. equald. lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton. 206.00 - —
bgs., l.c.l., l.t.l., frt. equald ton. 218.00 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., dlvd. lb. .16 - —
bbls., l.c.l., l.t.l., dlvd. ..... lb. .17 - —
Barium oxide, grd., dms., c.l., t.l., frt. equald ton. 265.00 - —
dms., l.c.l., l.t.l., frt. equald. ton. 275.00 - —
Barium peroxide, dms., frt. equald. lb. .20 - —
Barium stearate, ctns., c.l., frt. alld. lb. .41 - —
ctns., l.c.l., same basis ..... lb. .42 - .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, dms. .... lb. .15 - .15½
Barium sulfide, dms., c.l., works. ton. 100.00 - —
dms., l.c.l., works ..... ton. 110.00 - —
Barytes, southern, off-color, bgs., mines ton. 25.00 - —
95-75%, bgs., mines ..... ton. 25.00 - —
white, water-grd., paper bgs., c.l., St. Louis ton. 55.00 - 55.25
paper bgs., ex whse., New York ton. 79.85 - —
Battery acid, cbys. c.l. works, E. 100 lbs. 2.35 - —
cbys., l.c.l., works, E. ..... 100 lbs. 2.65 - 10.95
Bauxite, bulk, mines ..... ton. 7.00 - 10.00
Bay oil, NF, Puerto Rican, 50-55% cns. lb. 2.10 - 3.05
55-60%, cns. ..... lb. 2.50 - 3.05
West Indian, 50-55% cns. dms., lb. 2.30 - 3.00
Bayberry wax, bgs. ..... lb. .45 - .47
Beeswax, crude, African, bgs. .... lb. .55 - .57
Brazilian, bgs. ..... lb. .56 - .58
Central American, bgs. ..... lb. .55 - .57
Chilean, bgs. ..... lb. .58 - .60
Refd., USP, bleached, white, bricks, 100-lb. ctns. .lb. .69 - .71
white, slabs, 100-lb. ctns. ... lb. .68 - .70
yellow, bricks, 100-lb. ctns. lb. .60 - .62
yellow, slabs, 100-lb. ctns. lb. .58 - .60
Belladonna leaf, bls. ..... lb. .30 - —
Belladonna root, bls. ..... lb. .30 - —
Bentonite, dom. 200 mesh, bgs., c.l., mines ton. 14.00 - —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton. 91.00 - —
bgs., 1-ton lots, ex whse ton. 94.00 - —
low gel., bgs., 5-ton lots ex whse ton. 89.35 - —
bgs., 1-ton lots, ex whse ton. 92.35 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF, dms. ..... lb. .80 - .86
Tech., cbys., dms., t.l. ..... lb. .43 - —
cbys., smaller lots ..... lb. .44 - —
Benzene, coaltar, pure or nitration, tanks, works:
Bethlehem, Pa. ..... gal. .31 - —
Birmingham district .... gal. .31 - —
Chicago district ..... gal. .31 - —
Cleveland district ..... gal. .31 - —
Geneva, Utah ..... gal. .31 - —
Johnstown, Pa. ..... gal. .31 - —
Lackawanna, N. Y. .... gal. .31 - —
Lone Star, Tex. ..... gal. .31 - —
Lorain, Ohio ..... gal. .31 - —
Middletown, Ohio ..... gal. .31 - —
Minnequa, Colo. ..... gal. .31 - —
Philadelphia district .... gal. .31 - —
Pittsburgh district ..... lb. .31 - —
Sparrows Point, Md. .. gal. .31 - —
Syracuse, N. Y. ..... gal. .31 - —
Terre Haute, Ind. ..... gal. .31 - —
Youngstown, Ohio ..... gal. .31 - —
Benzene, petroleum, nitration or industrial, Houston, Tex., tanks, gal. .31 - —
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech. high gamme, dms., c.l. dlvd. gamma unit-lb. .00825- —
dms., l.c.l., works gamma unit-lb. .009 - .0095
low gamma, dms., c.l. dlvd. gamma unit-lb. .00825- —
dms., l.c.l., works gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., l.c.l., same basis ..... lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 - —
Benzidine yellow, AAA, bbls. dlvd. lb. 2.30 - —
AAOT, bbls., dlvd. ..... lb. 2.55 - —
Lightfast, bbls., dlvd. ..... lb. 3.40 - —
Benzocaine, dms. ..... lb. 3.48 - 3.50
Benzoic acid, tech., bbls., dms., c.l., t.l., frt., alld lb. .37 - —
bbls., dms., ton lots, same basis lb. .41 - —
bbls., dms., 1,000-lb. lots, same basis lb. .43 - —
USP, bbls., dms., ton lots .... lb. .48 - —
bbls., dms., 1,000-lb. lots ... lb. .50 - —
Benzoin gum, Sumatra, cs. ..... lb. .33 - —

Benzol

Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzophenone, dms. ..... lb. 1.40 - 1.70
Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt., equald lb. .21 - —
cbys, smaller lots, frt., equald lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt., equald lb. .22 - —
cbys., l.c.l., same basis lb. .23 - —
tanktrucks, dlvd. Metropolitan area lb. .21 - —
Benzoyl peroxide, purif., fib. cms., 50 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .58 - .79
Benzyl alcohol, NF, dms. ..... lb. .58 - .80
Tech., dms., dlvd. ..... lb. 47½- .65
Benzyl benzoate, USP, NF, 40-lb. dms lb. .68 - —
Benzyl chloride, tech., cbys., dms., c.l., works, frt., equald lb. .22½- .25½
cbys., dms., l.c.l., same basis lb. 23½- 25½
tanktrucks, dlvd., Metropolitan area lb. .21 - —

A 2½c. differential is quoted on benzyl chloride in 5-gal cbys. In steel dms. prices are ½c. lower.

Benzyl cinnamate, cns. ..... lb. 3.30 - 3.60
Benzyl dimethylamine, dms., works. lb. 2.25 - —
Benzyl formate, cns. ..... lb. 1.85 - 2.10
Benzyl isoeugenol, cns. ..... lb. 9.85 - —
Benzyl propionate, bots. ..... lb. 1.35 - 1.65
Benzyl salicylate, bots. ..... lb. 1.60 - 1.85
Benzylidine acetone, bots. ..... lb. 1.75 - 1.80
Benzylidine chloride, (see Benzal chloride).
Berberine bisulfate, cns. ..... lb. 35.00 - 36.25
Berberine hydrochloride, bots. ... lb. 35.00 - 36.25
Bergamot oil, nat., NF, Italian, cns. lb. 12.75 - 14.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid)
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol)
Betanaphthylamine (see b-Naphthylamine)
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, tech.).
Biotin, cryst., bots. ..... gram 10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude, cns. ..... lb. 1.50 - 1.90
Rectified, cns. ..... lb. 1.75 - 2.00
Bismuth chloride, jars ..... lb. 5.11 - —
Bismuth hydroxide, dms. ..... lb. 4.60 - 4.65
Bismuth metal, bxs., ton lots .... lb. 2.25 - —
Bismuth nitrate, cryst., dms. .... lb. 2.08 - 2.17
Bismuth oxide, anhyd., dms. .... lb. 4.47 - 5.05
Bismuth oxychloride, dms. ..... lb. 4.37 - 4.42
Bismuth subcarbonate, USP, dms. lb. 3.20 - —
Bismuth subgallate NF fib. dms lb. 3.15 - —
Bismuth subiodide, NF, fib. dms. lb. 5.37 - —
Bismuth subnitrate, NF dms. ... lb. 2.65 - —
Bismuth subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, bgs., c.l., t.l., single shipt., 70,000-lbs. or more, frt. alld lb. .29½- —
bgs., c.l., t.l., less than 70,000-lbs., same basis lb. .30 - —
bgs., l.c.l., same basis ..... lb. .31 - —
Blackberry root bark, bls. ..... lb. .50 - .55
Black haw root bark, bls. ..... lb. .63 - .65
Black haw tree bark, bls. ..... lb. .45 - .50

Black Pigments

Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe, direct process, bgs. c.l., works ton. 145.00 - —
bgs., l.c.l., works ..... ton. 155.00 - —
bgs., l.c.l., New York whse. ton. 195.00 - —
Blood, dried, 16-16½% ammonia, New York .. unit-ton. 6.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 7.00 - —
Blood, dried, soluble, bgs., c.l. lb. .12 - .13
bgs., t.l. ..... lb. .14 - .17
bgs., l.t.l. ..... lb. .15 - .30
Bloodroot, bls ..... lb. .48 - .50

Blue Pigments

Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms. lb. 2.10 - 2.75
Peruvian, dms. ..... lb. 1.85 - 2.30
BON acid maroons, pure, bbls. lb. 1.75 - —
Resinated, bbls. ..... lb. 1.50 - —

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Very soon now, we'll be ready to fill your volume requirements for high quality nitration grade benzene. We'll ship, by barge or tank car, from our new plant at Port Arthur, Texas . . . the world's largest benzene production unit. Toluene will also be available. We invite you to investigate this basic source of quality benzene, and to take advantage of Gulf technical service. For complete information, write or phone.

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Aromatics • Ethylene • Propylene • Propylene Trimer and Tetramer • Oxo Products • Sulphur

GULF

Bone black, dms., l.c.l. frt. alld lb. .18 - .22½
Pacific coast bone black prices 2c. per lb. higher.
Bonemeal, steamed, works, E ton.65.00 - —
Bone phosphate, defluorinated of lime (see Defluorinated phosphate).
Bone phosphate, precip. (see Calcium phosphate, tribasic).
Borax, tech., anhyd., 99½%, bgs., c.l., works ton.87.50 - —
bgs., ton lots, ex whse. New York or Chicago ton.143.75 - —
bgs., smaller lots, same basis. ton.148.75 - —
bulk, c.l., works ton.78.50 - —
gran., decahydrate, 99½%, bgs., c.l. works ton.47.50 - —
bgs., ton lots, ex whse. New York or Chicago ton.103.75 - —
bgs., smaller lots, same basis. ton.108.75 - —
bulk, c.l., works ton.41.00 - —
gran., pentahydrate, 99½%, bgs., c.l., works ton.63.00 - —
bgs., ton lots, ex whse. New York or Chicago ton.119.25 - —
bgs, smaller lots, same basis. ton.124.25 - —
bulk, c.l., works ton.56.50 - —
powd., 99½%, bgs., c.l., works. ton.52.50 - —
bgs., ton lots, ex whse, New York or Chicago ton.108.75 - —
Borax, tech., powd., 99½%, bgs., smaller lots, same basis. ton.113.75 - —
USP borax $15 per ton higher.
Bordeaux powder, tribasic, bgs., c.l., dlvd lb. .24 - —
bgs., l.c.l., same basis lb. .26 - —
Boric acid, tech., anhyd., 99.9%, bgs., c.l., works ton.335.00 - —
bgs., ton lots ex whse, New York or Chicago ton.390.00 - —
bgs., smaller lots, same basis. ton.415.00 - —
cryst., 99.9%, bgs., c.l., works. ton.133.50 - —
bgs., ton lots, ex whse, New York or Chicago ton.190.75 - —
bgs., smaller lots, same basis. ton.195.75 - —
dms., c.l., works ton.158.00 -178.00
dms., ton lots, ex whse, New York or Chicago ton.215.25 -235.25
dms., smaller lots, same basis. ton.220.25 -240.25
gran., 99.9%, bgs., c.l., works. ton.108.50 - —
bgs., ton lots, ex whse, New York or Chicago ton.165.75 - —
bgs, smaller lots, same basis ton.170.75 - —
dms., c.l., works ton.133.00 -153.00
dms., ton lots, ex whse, New York or Chicago ton.190.25 -210.25
Boric acid, tech., gran., 99.9%, dms., smaller lots, same basis. ton.195.25 - —
bulk, c.l., works ton.102.50 - —
powd., 99.9%, bgs., c.l., works ton.113.50 - —
bgs., ton lots, ex whse, New York or Chicago ton.170.75 - —
bgs., smaller lots, same basis. ton.175.75 - —
dms., c.l., works ton.138.00 -158.00
dms., ton lots, ex whse, New York or Chicago ton.195.25 -215.25
dms., smaller lots, same basis. ton.200.25 -220.25
USP boric acid $25 per ton higher.
Borneol, cns. lb. 2.75 - —
Boron trichloride, CP, 1,800-lb. cyls., works lb. 1.25 - —
100-lb. cyls., works lb. 1.70 - —
Boron trifluoride gas, cyls, truckload, works lb. .62 - —
cyls., l.t.l., works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Broenner's acid, bbls. lb. 1.76 - —
Bromine, purif., cs., c.l., t.l., dlvd. E of Rockies lb. .32 - —
c.s., l.c.l., same basis lb. .34 - .39
ret. dms., c.l., t.l., dlvd. E of Rockies lb. .31 - —
ret. dms., l.c.l., same basis lb. .31 - .34
tanks, same basis lb. .21½- —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
dms., l.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —
Bromoform, pharmaceutical grade, 100-lb. cbys lb. 1.80 - 1.90
Bromstyrol, bots. lb. 5.45 - 5.70
Brucine, cns., 100-oz. lots oz. 1.26 Nom.
Brucine sulfate, NF, cns., 100-oz. lots oz. 1.20 Nom.
Buchu leaves, bls. lb. 1.20 - —

Brown Pigments

Brown pigment quotations are listed individually. For example, prices on Brown, iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd. cyls., c.l., refy lb. .21 - —
cyls., l.c.l., refy lb. .22 - —
tanks, contract, refy lb. .14½- .15
n-Butyl acetate, ferment, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l., same basis lb. .18 - —
tanks, same basis lb. .14½- —
Syn., dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., same basis lb. .18 - —
tanks, same basis lb. .14½- —
sec-Butyl acetate, syn., dms., c.l., dlvd.E. lb. .14¾- —
dms., l.c.l., same basis lb. .15¾- —
tanks, same basis lb. .12¼- —
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt. alld. E. lb. .57½- —
dms., l.t.l., same basis lb. .58½- —
tanks, same basis lb. .53 - —
Prices of n-butyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Butyl alcohol, ferment, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., frt. alld. lb. .18 - —
tanks, frt. alld lb. .14½- —
Syn., dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Butyl alcohol, sec-synthetic, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .12½- —
Butyl alcohol, tert-synthetic, dms., c.l., frt. alld. dlvd. E lb. .14¾- —
dms., l.c.l., same basis lb. .15¾- —
tanks, same basis lb. .12¼- —
Butyl aldehyde (see Butyraldehyde).
Butyl chloride, dms., c.l., works lb. .37½- —
dms., l.c.l., works lb. .38¾- —
n-Butyl ether, dms., c.l., works lb. .35¼- —
dms., l.c.l., works lb. .36 - —
tanks, works lb. .33¼- —
Butyl lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½- —
dms., l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Butyl laurate, dms., works lb. .37½- —
Butyl methacrylate, dms., c.l., t.l., works lb. .55 - —
dms., l.c.l., works lb. .55½- —
Butyl oleate, refd., dms., l.c.l., works lb. .32 - —
Butyl phenylacetate, dms., lb. 4.50 4.60
Butyl phthalate (see Dibutyl phthalate).
Butyl stearate, dms., c.l., frt. alld. E. of Mississippi lb. .27¼- —
dms., l.c.l., same basis lb. .23¼- —
Butylamine (see Mono-, Di- and Tri-butylamine).
6-tert-Butyl-m-cresol (see mono-tert-m-cresol).
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
p-tert-Butylphenol, bgs., c.l., frt. alld lb. .27½- —
bgs., l.c.l., works lb. .28½- —
Butyraldehyde, dms., c.l., dlvd lb. .22 - —
dms., l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .19½- —

Butyric acid, 99%, dms., c.l., frt. equald lb. .34 - —
dms., l.c.l., same basis lb. .34½- —
tanks, same basis lb. .32½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium CP red, dark shade, bbls., frt. alld. E. of Rockies lb. 5.45 - —
Light shade, bbls., same basis lb. 4.55 - —
Medium shade, bbls., same basis. lb. 5.20 - —
Medium light shade, bbls., same basis lb. 4.80 - —
Orange-red shade, bbls., same basis lb. 4.20 - —
Yellow, all shades, bbls., frt. alld. E. of Rockies lb. 3.75 - —
Cadmium iodide, 25-lb. fib. dms. lb. 6.75 - 7.00
Cadmium metal, ingots or sticks, cs., dlvd lb. 1.45 - —
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld E. of Rockies lb. 1.61 - —
Cadmium-mercury lithopone red, dark shade, bbls., same basis lb. 1.91 - —
light shade, bbls., same basis lb. 1.68 - —
Medium shade, bbls., same basis. lb. 1.83 - —
Medium light shade, bbls., same basis lb. 1.76 - —
Maroon shade, bbls., same basis lb. 1.99 - —
Cadmium-selenide lithopone maroon, bbls., frt. alld. E. of Rockies, lb. 2.72 - —
Maroon, dark shade, bbls., same basis lb. 2.77 - —
Orange, bbls., same basis lb. 1.54 - —
Red, orange-red shade, bbls., same basis lb. 1.62 - —
Red, light shade, bbls., same basis, lb. 1.84 - —
Red, medium-light shade, bbls., same basis lb. 1.96 - —
Red, medium shade, bbls., same basis lb. 2.19 - —
Red, dark shade, bbls. same basis. lb. 2.52 - —
Cadmium-selenide lithopone yellow, all shades, bbls., frt. alld. E. of Rockies lb. 1.15 - —
Caffeine, NF, citrated, cns., 100-lb. lots or more lb. 2.70 - —
USP, nat., cryst., anhyd., 100-lb. lots or more lb. 2.50 - —
cryst., hydrous, dms., 100-lb. lots or more lb. 2.33 - —
Syn., cryst., anhyd., dms., 100-lb. lots or more lb. 2.50 - —
cryst., hydrous, dms., 100-lb. lots or more lb. 2.33 - —
Cajuput oil, native, cns. lb. 1.75 - 2.55
Redist., USP, cns lb. 1.90 - 2.10
Calamine, USP, dms. lb. .34 —
Calamus oil, bots lb.12.00 -20.00
Calciferol, cryst., 10-kilo or more lots, works gram. .54 - —
1-10 kilo lots gram. .55 - —
Calciferol, in edible oil (see Viosterol).

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ALUMINUM TRICHLORIDE—Various mesh sizes in drums of 50 to 600 pounds net, and in bulk. Also in solution.

ANTIMONY CHLORIDES—Both solid and flake (anhydrous) in drums of 25 to 700 pounds net. Liquid pentachloride in drums of 25 to 700 pounds net, in tank trucks and tank cars.

BORON TRICHLORIDE—In low-pressure cylinders of 100 and 1800 pounds net; also in tank cars. 6-pound cylinders for experimental use.

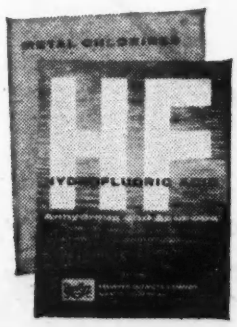
HYDROCHLORIC ACID—Anhydrous HCl available in tube trailers or cylinders from Los Angeles, Calif., and Fort Worth, Texas.

HYDROFLUORIC ACID—Anhydrous HF available in tank cars of 22- and 42-ton capacity, and in 100- and 200-pound cylinders, from Stauffer's Nyotex Chemicals Division at Houston; aqueous acid in drums and tank cars from Louisville.

SULFURIC ACID—Commercial grades at concentrations of 77.67% up to 122.5%. Oleum at various strengths from 15 to 65% free SO_3; also liquid SO_3. By pipeline, barges, tank cars and tank trucks from factories at Mobile, Ala.; Los Angeles and Richmond, Calif.; Hammond, Ind.; Baton Rouge, La.; Baytown, Fort Worth and Houston, Tex., and various stock points.

TITANIUM TETRACHLORIDE—Technical and C.P. Tank cars and tank trucks; 10-gallon and 55-gallon drums of 130 and 725 pounds net from Niagara Falls, New York.

TITANIUM TRICHLORIDE (Anhydrous)—Available in 1-, 5- and 55-gallon drums packaged under argon atmosphere f.o.b. Richmond, Calif.



LITERATURE AVAILABLE

METAL CHLORIDES:

Send for copy of a new and authoritative book on Metal Chlorides. There are sections on chlorides of silicon and zirconium in addition to those described above.

HYDROFLUORIC ACID:

16-page brochure with many graphs and tables and a 24-page pocket-size booklet on Safe Handling and Analytical Methods.

Calcium p-Aminosalicylate—Cassia

Calcium p-aminosalicylate, trihydrate, fib. dms., 100 lbs. or more, frt. adjusted . lb. 4.00 - —
Calcium arsenate, dealers, bgs., c.l., frt. alld lb. .09 - .09¼
bgs., l.c.l., same basis ..... lb. .10 - .10½
Calcium bromide, NF, 100 lbs. or more lb. .97 - —
Calcium carbide, standard generator size, 600-lb. dms., c.l., dlvd ton.149.00 - —
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton.10.50 - —
chalk, whiting, 325 mesh, bgs., c.l., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
Calcium carbonate, precip., dense, bgs., c.l., works ton.30.00 -35.00
bgs., l.c.l., works ..... ton.45.00 -50.00
medium, bgs., c.l., works ton.38.00 - —
bgs., l.c.l., works ..... ton.48.00 - —
Calcium carborate, precip., surface treated, bgs., c.l., works. ton.40.00 -42.00
bgs., l.c.l., works ..... ton.55.00 -57.00
ultrafine, bgs., c.l., works.ton.117.50 167.50
bgs., l.c.l., works ..... ton.137.50 -187.50
Calcium chloride, flake, 77-80%, paper bgs., c.l., works, frt. equald ton.31.00 - —
Conc., flake or pellet, 94-97%, paper bgs., c.l., works, frt. equald ton.37.80 - —
Powd., 77% min., paper bgs., c.l., works, frt. equald ..ton.37.00 - —
Purif., gran., dms. ..... lb. .27 - —
USP, gran., dms. ..... lb. .32 - —
Liquor, 40%, tanks, frt. equald. ton.12.50 - —
Solid, 73-75%, dms., c.l., frt. equald ton.29.50 - —
dms., l.c.l., works, frt. equald. ton.36.00 -73.00
Calcium chromate, bgs., frt. equald. lb. .29½- .30
Calcium cyanide, dms., c.l., dlvd. E. of Rockies lb. .20 - —
dms., l.c.l., same basis lb. .24 - .55
Calcium cyclamate, 100-lb. dms lb. 1.95 - —
Calcium gluconate, AA, ton-lots lb. .78½- —
USP, ton-lots ..... lb. .66½- —
Calcium hydride, lump, dms., works. lb. 2.20 3.00
Calcium hypochlorite, high test, 45-lb cs., dlvd. E. of Rockies. cs.22.95 -25.10
100-lb. dms., same basis dm.30.80 -34.50
Calcium hypophosphite dms., 1,000-lb lots lb. 1.28 - —
Calcium iodide, jars ..... lb. 4.52 - —
Calcium lactate, NF, dms., 10,000-lb. lots or more, works lb. .36 - .40
smaller lots, works lb. .41 - .48
Calcium mandelate, USP, dms., works lb. 2.10 - 2.25
Calcium naphthenate, liq., 4% Ca., dms., frt. equald lb. .30 - —
Calcium pantothenate, dms., frt. adjusted kilo.35.00 - —
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).
Calcium phenolsulfonate, dms. lb. 1.14 - 1.15
Calcium phosphate, dibasic, USP, bgs., c.l., frt. equald 100 lbs. 8.25 - —
bgs., l.c.l., frt. equald 100 lbs. 9.00 - —
feed grade, 18½% P, bgs., c.l., t.l., frt. equald ton.83.25 - —
bgs., c.l., t.l., f.o.b. Texas City works ton.77.70 - —
bgs., l.c.l., frt. equald ton.93.25 - —
21% P., bgs., c.l., t.l., frt. equald ton.94.50 - —
bgs., l.c.l., frt. equald ton.104.50 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bg., c.l. prices
Calcium phosphate, monobasic, bgs., 10,000-lb. lots, frt. equald. 100 lbs. 7.45 - —
bgs., smaller lots, same basis, 100 lbs. 7.95 - —
Calcium phosphate, tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs. 9.25 - —
bgs., l.c.l., frt. equald. 100 lbs.10.00 - —
Calcium phytate bgs., works lb. .50 - —
Calcium resinate precip, dms ton. lots, frt. alld., works lb. .36¼- —
Calcium silicate, hydrated, bgs., c.l., works lb. .06 - —
bgs., l.c.l., works ..... lb. .06½- —
Calcium silicate, paint grade (see Wollastonite).
Calcium stearate, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Calcium sulfate (see Gypsum)
Calomel, NF X, powd., 100-lb. dms.lb. 5.42 - —
Camphene 46° m.p., dms. incl., c.l., works lb. .15 - —
dms. incl., l.c.l., same basis lb. .16½- —
tanks, same basis ..... lb. .12½- —
Camphene, chlorinated 67-69% (see Toxaphene)
Camphor, monobromated, NF, dms., kgs. lb. 3.63 - 3.70
Camphor, nat., USP powd. cs., 100-lb. lots lb. .80 - .85
tablets, 1-oz. cs. ..... lb. .85 - .90
USP, gran., powd. bbls., 2,000-lb. lots ... lb. .59 - —
Syn., USP, gran., powd., bbls., 1,000-lb. lots lb. .60 - —
bbls., smaller lots ..... lb. .61 - —
tablets, ctns., 1,000-lb. lots lb. .85 - —
ctns. 500-lb. lots ..... lb. .86 - —
ctns. smaller lots ..... lb. .87 - —
tech., 1 bbl. or more ..... lb. .48 - —
Camphor oil, sassafrassy, dms. . lb. .40 - .65
White, dms. ..... lb. .29 - .50
Cananga oil, native, cns. ..... lb. 7.25 - 8.00
Rectified, cns. ..... lb. 9.55 -11.25
Candelilla wax, crude, bgs. .... lb. .53 - .54
Refd., bgs. ..... lb. .59 - .61
Powdered Candelilla wax 20 to 100 mesh, 8c. higher.
Cantharides, Chinese, cs. ..... lb. 2.00 - 2.05
powd., bxs. ..... lb. 2.25 - 2.30
Russian, bgs. ..... lb. 2.75 - —
powd., bxs ..... lb. 3.00 - 3.25
Capric acid, dms. ..... lb. .31½- .34
tanks ..... lb. .29 - —
Caprylic alcohol, 85% dms., c.l., and t.l., works lb. .19 - —
dms., t.t.l., same basis ..... lb. .19½- —
tanks, frt. equald ..... lb. .16½- —
Sec. 92-99%, dms., c.l. ..... lb. .22 - —
dms., l.c.l. ..... lb. .23 - —
tanks ..... lb. .19½- —
Caprylic acid, dms. ..... lb. .31½- .34
tanks ..... lb. .29 - —
Capsicum (see Pepper red).
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom. pepper, dms lb. 4.00 - 4.75
NF, from African pepper, dms lb. 4.50 - 5.25
Caraway oil, dms ..... lb. 3.10 - 3.50
Caraway seed, Dutch, bgs ..... lb. .13½- —
Polish, bgs. ..... lb. .11 - —
Carbazole, 97%, bbls. ton lots, works lb. 1.05 - —
Carbon black, channel, rubber beads, bulk, c.l., works lb. .07¼- —
bgs., c.l., works ..... lb. .07¾- —
bgs., l.c.l., works ..... lb. .14½- —
Carbon black, furnace, fast extruding, bgs., c.l., works lb. .06¾- —
ctns., l.c.l., whse. ..... lb. .12½- —
high abrasion, bulk, c.l., works. lb. .07¼- —
bgs., c.l., works ..... lb. .07¾- —
bgs., l.c.l., divd. or whse lb. .13½- —
high modulus, bgs., c.l., works. lb. .06¼- —
ctns., l.c.l., whse. ..... lb. .12 - —
semi-reinforcing, bgs. c.l., works. lb. .05¾- —
bgs., ctns., l.c.l., whse ... lb. .11½- —
Carbon black, pigment, high color beads, ctns., c.l., works lb. .72 - —
ctns., l.c.l., divd. or whse lb. .79 - —
medium color, uncompressed, bgs., c.l., works lb. .13½- —
bgs., l.c.l., divd. or whse. . lb. .21 - —
Carbon dioxide indust. wholesale, bulk, divd., Metropolitan area ton.73.00 -115.00
50-lb. cyls., divd. ..... lb. .09 - .11
Solid, bulk, wholesale, works ton.85.00 - —
Carbon disulfide, 55-gal. dms. c.l., works, frt. equald to competitive points lb. .07 - —
55-gal. dms. l.c.l., same basis lb. .08½- .09
5-gal. dms. 30 dms. to c.l., same basis lb. .13 - —
5-gal. dms., less than 30 dms., same basis lb. .16 - —
tanks, divd. ..... lb. .0545- —
Carbon tetrachloride, CP, consumers, dms., c.l., frt. alld lb. .12¾- —
dms., l.c.l., frt. alld. ... lb. .15¼- —
Tech., consumers, dms., c.l., t.l., frt. alld lb. .11¾- —
dms., l.c.l., l.t.l., frt. alld lb. .14¼- —
tanks, frt. alld. ..... lb. .10¾- .11¼
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
dms., smaller lots, works ... lb. 4.10 - 4.75
Cardamom oil, NF, bots. ..... lb.45.00 -55.00
Cardamom seed, bleached, "A" . lb. 2.95 - —
Bleached, "B" ..... lb. 2.80 - —
Decorticated Alleppey, cs .... lb. 2.85 - —
Guatemala, cs. ..... lb. 2.85 - —
Green, Alleppey, bgs. ..... lb. 2.10 - —
Ceylon, bgs. ..... lb. 2.25 - —
Carmine No. 40, NF, bulk, 100-lb lots or more, dlvd. ... lb.16.80 - —
bulk, smaller lots, dlvd. ..... lb.16.90 -17.30
Carnauba wax, chalky, bgs., ton lots lb. .68 - .70
North country, No. 2, crude, bgs., ton lots lb. .77 - .78
refd., pure, ton lots .... lb. .88 - .89
North country, No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
Ceara, refd., pure bgs., ton lots lb. .78 - .79
Parnahyba, crude, bgs., ton lots lb. .72 - .75
Parnahyba, refd., pure, bgs., ton lots lb. 78 - .79
Yellow, No. 1, Ceara, bgs., ton lots. lb. 1.13 - 1.15
Parnahyba, bgs., ton lots. lb. 1.15 - 1.17
Powdered carnauba wax, 20 to 100 mesh, 8c. higher.
Carotene, tech., 1,350,000 A units per gram, tins 5-10 kilo lots, dlvd gram. .24½- —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
Carotene, USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd million units. .174 - —
b-Carotene in vegetable oil, semi-solid suspension, 400,000 A units per gram. cns. kilo.69.60 - —
Liquid in vegetable oil, 500,000 A units per gram., cns kilo.87.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram., cns. gram. .29 - —
Carvol, bots. ..... lb. 5.00 - 5.40
Cascara sagrada bark, bulk ..... lb. .30 - —
Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works ... lb. .56 - —
edible, acid, precip., 80 mesh, bgs., 10,000-lb lots or more, works lb. .64 - —
Imp., inedible, acid-precip. grd., Argentine, bgs., c.l., ex-dock, Eastern seaports ..... lb. .21 - .21¼
New Zealand, bgs., c.l., same basis. lb. .24 - .24½
Cashewnut shell liquid, treated dms., c.l., Newark, N. J. . lb. .22 - —
dms., ton lots, same basis ... lb. .23 - —
dms., dm. lots, same basis . lb. .25 - —
Cassella acid, dms., frt. alld., 100% basis . lb. 1.44 - 1.75
Cassia, Padang, "A," bls. ..... lb. .31 - —
"B," bls. ..... lb. .31 - —
"C," bls. ..... lb. .31 - —
Korintje "A," bls. ..... lb. .31 - —
"B," bls. ..... lb. .31 - —
"C," bls. ..... lb. .31 - —

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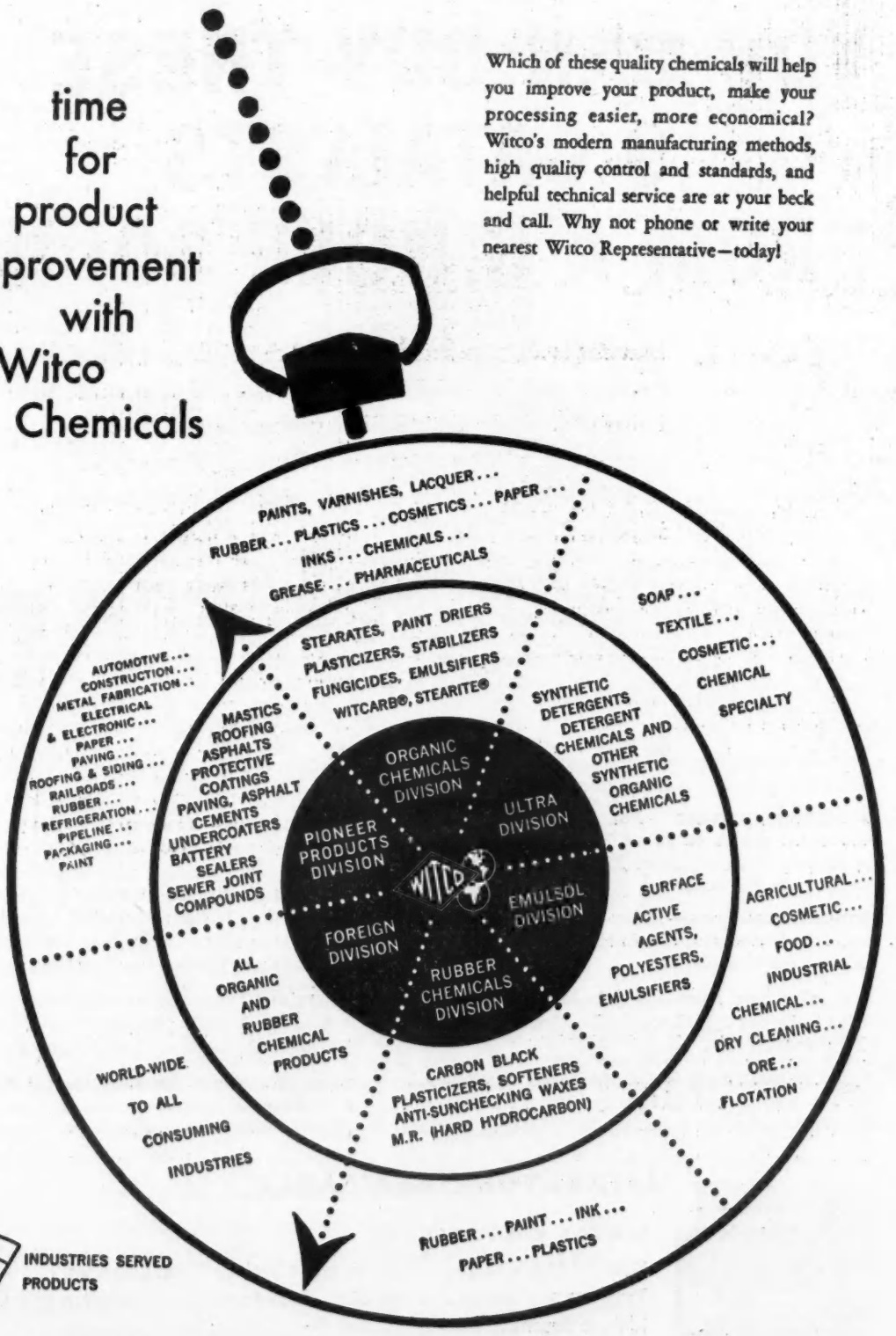
Which of these quality chemicals will help you improve your product, make your processing easier, more economical? Witco's modern manufacturing methods, high quality control and standards, and helpful technical service are at your beck and call. Why not phone or write your nearest Witco Representative—today!



WITCO CHEMICAL COMPANY 122 East 42nd Street, New York 17, N.Y.

Chicago · Boston · Akron · Atlanta · Houston
Los Angeles · San Francisco · Oakville, Ontario
London and Manchester, England

Cassia oil (see Cinnamon leaf oil, USP).
Castor oil, dom., blown, dms., c.l. lb. .2550- —
dms., l.c.l. lb. .2650- —
dehydrated, bodied, dms., c.l. lb. .2650- —
dms., l.c.l. lb. .2810- —
tanks lb. .2500- —
dehydrated, unbodied, dms., c.l. lb. .2560- —
dms., l.c.l. lb. .2660- —
tanks lb. .2360- —
hydrogenated, bgs., ton lots lb. .2750- —
bgs., l.c.l., dlvd lb. .2950- —
No. 1, dms., c.l. lb. .2200- —
dms., l.c.l. lb. .2300- —
tanks lb. .1950- —
No. 3, tech., dms., c.l. lb. .2125- —
dms., l.c.l. lb. .2225- —
tanks lb. .1925- —
Refd. and deodorized, dms., c.l. lb. .2650- —
dms., l.c.l. lb. .2750- —
USP, dms., c.l. lb. .2350- —
dms., l.c.l. lb. .2450- —
tanks lb. .2150- —
Imp., No. 1, Brazilian, tanks lb. .14⅞- .15
Castor oil, sulfonated, 50%, dms., works lb. .15 - .15¼
75%, dms., works lb. .19 - .20
Castor oil acids, dehydrated, dms. lb. .44¼- .46¼
Split, dms. lb. .37¼- .38¼
Castor pomace, bgs., c.l., works ton. 35.00 - —
Castoreum, nat., cns. lb. 5.25 - —
Syn., cns. lb. 9.00 - —
Catechol, CP, cryst., fib., dms., works lb. 2.17½- —
Resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls. lb. .75 - —
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic).
Cedarleaf oil, USP XIII cns., dms. lb. 2.85 - 3.75
Cedarwood oil, cns., dms. lb. .53 - .65
Celery seed, French, bgs. lb. .28¼- —
Indian, bgs. lb. .19 - —
Cellulose acetate, flake, powd., bgs. ctns., 100-lb. lots or more, dlvd., E. lb. .35 - .45
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .593 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
38% butyryl content, half-second, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd., E lb. .583 - .593
Cellulose gum, methyl (see Methyl Cellulose).
Cellulose gum, pure, high vis., bgs., 23,000-lb lots or more works, frt. alld lb. .57 - —
bgs. smaller lots, same basis, lb. .59 - —
Cerium chloride, 43%, dms., dlvd lb. .25 - —
Cerium hydrate, 74% CeO fib. dms., 100-lb. lots or more lb. 1.40 - —
77% CeO, fib. dms. 100-lb. lots or more lb. 1.74 - —
Cerium oxalate (see Rare earth oxalate).
Cerium oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.85 - 1.90
bgs., smaller lots, dlvd. lb. 1.95 - —
Cetyl alcohol, extra fib. cns., 500-lb. lots or more lb. .65 - .72
NF, fib. cns., 140-lb. lots or more, lb. .48 - —
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, bls. lb. No prices.
Roman, cs. lb. 2.25 - —
Chamomile oil, blue Hungarian, bots lb. 350.00 - —
Charcoal, activated, NF, fib dms. c.l., works lb. .23 - .33
fib. dms., 5-ton lots, works lb. .26½- .32½
fib. dms., smaller lots, works lb. .27 - .50
Charcoal, black (see Charcoal, activated).
Charcoal, bone (see Bone black).
Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant ton. 55.00 - —
briquets, bulk, c.l., f.o.b. plant ton. 78.00 - 80.00
5-lb. paper bgs., c.l., same basis ton. 106.00 - —
25-lb. paper bgs., c.l., f.o.b. plant ton. 87.00 - —
40-lb. paper bgs. c.l., same basis ton. 84.00 - —
Chenopodium oil, NF, cns. lb. 4.35 - 5.25
Chestnut extract, Imp. solid, 60% tannin, bgs., ex dock lb. .0855- —
powd., 60% tannin, bgs., ex dock lb. .0969- —
Chicago acid paste, bbls. frt. alld. lb. 3.21 - —
Chinawood oil (see Tung oil).
Chloral, tech, 94% min., dms., c.l., works lb. .23 - —
dms., l.c.l., works lb. .24 - —
tanks, multiple units, 5 cars, works lb. .21 - —
Chloral hydrate, USP, jars, 1,000-lb lots lb. 1.00 - —
jars, 500-lb. lots. lb. 1.03 - —
jars, 100-lb lots or less lb. 1.05 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
dms. l.c.l. 5,000 to 10,000-lb. lots, frt. alld lb. .66 - —
Chlordan, clarified, dms., c.l., frt. alld lb. .69 - —
dms., l.c.l., 5,000-10,000-lb lots, frt. alld lb. .70 - —
Chlorinated paraffin, 42%, dms., c.l. frt. alld lb. .16¼- —
dms. l.c.l. 10 dms. or more, same basis lb. .17¼- —
70%, dms., c.l., same basis lb. .18½- —
dms. l.c.l. 10 dms. or more, same basis lb. .19½- —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 - —
ctns., l.c.l., works lb. .61 - —
Chlorinated rubber, 125, 1,000 cps., ctns., c.l., works lb. .70 - —
ctns., l.c.l., works lb. .71 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .11 - —
cyls., l.c.l. Metropolitan area lb. .12½- .13¼
tanks, single units, works, frt. equald 100 lbs. 3.15 - —
tanks, multiple units, 5 cars, works, frt. equald 100 lbs. 4.03 - —
tanks, multiple units, 4 cars, same basis 100 lbs. 4.25 - —
tanks, multiple units, 2 cars, same basis 100 lbs. 5.25 - 5.75
tanks, multiple units, 1 car, same basis 100 lbs. 6.25 - 7.25

Chloroacetic acid, mono, flake, 99%, dms., c.l. lb. .23½- .25½
dms., l.c.l. lb. .24½- —
tech. flake, 96-97%, dms., c.l., frt. equald lb. .19 - —
dms., l.c.l., frt. equald lb. .20 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. alld. lb. .73 - —
dms., l.c.l., same basis lb. .77 - —
tanks, same basis lb. .73 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 - —
dms., l.c.l., same basis lb. .54 - —
tanks, same basis lb. .50 - —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 - —
dms., l.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works, dlvd. to N.Y. Metropolitan area lb. 1.03 - —
dms., l.t.l., same basis lb. 1.20 - —
p-Chlorobenzaldehyde, dms., l.c.l., works, dlvd. to N. Y. Metropolitan area lb. 1.93 - —
o-Chlorobenzoic acid, fib. dms., t.l., works lb. 1.10 - —
fib. dms., smaller lots, works lb. 1.23 - —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works. lb. 2.23 - —
fib. dms., less than 2,000-lbs., same basis lb. 2.30 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms., c.l., dlvd lb. .27 - —
dms., l.c.l., dlvd lb. .30 - —
tanks, minimum 4,000 gals., dlvd. lb. .25 - —
2-Chloro-4-nitroaniline, paste, dlvd. E. 100% basis lb. .81 - —
Powd. dlvd. E. 100% basis lb. .86½- —

4-Chloro-2-nitroaniline, powd. dlvd. E lb. .80¼- —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
Chloropicrin, coml., cyls., 180 lbs., frt. alld lb. 1.07 - —
cyls., 100 lbs., same basis lb. 1.08 - —
cyls., 50 lbs., same basis lb. 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465- —
dms., l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —
Chlorosulfonic acid, in stainless steel dms. ½c. per lb. higher
Choline bitartrate, fib dms., frt. adjusted kilo. 2.75 - 3.00
Choline chloride, fib. dms., frt. adjusted kilo. 2.75 - 3.00
Choline dihydrogen citrate, fib. dms., frt. adjusted kilo. 2.75 - 3.00
Chrome green, CP, dark, light medium blue content 1-15%, bbls., dlvd. E. of Rockies lb. .40 - .42
blue content 16-30%, bbls., same basis lb. .40 - .42
blue content 31-45%, bbls., same basis lb. .41 - .43
blue content 45-49%, bbls., same basis lb. .44 - .46
Reduced color, 25% lb. .19 - .20
Chrome green prices 1c. higher W. of Rockies.

Chrome orange, CP, bbls., dlvd. E. of Rockies lb. .31½- —
Chrome orange prices 1c. higher W. of Rockies.
Chrome yellow, CP, bbls., dlvd. E. of Rockies lb. .31½- —
Chrome yellow price 1c. higher W. of Rockies.
Chromic acid, 99¾% dms., c.l., works, frt. equald lb. .29½- —
dms., l.c.l., dlvd. N. Y. Metropolitan area lb. .30 - .31
Chromic acid, NF (see Chromium trioxide).
Chromium acetate, soln., 7½%, 500 to 2,000 lbs., dms., works lb. .10 - —
Chromium fluoride, bbls., works lb. .51 - .52
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld lb. 1.20 - —
Pure, bgs., c.l., frt. alld lb. .44½- —
bgs., l.c.l., same basis lb. .45¼- —
Chromium trioxide, NF, bots lb. 1.15 - —
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
NF, yellow broken, bgs. lb. .35 - 40
Cinnamic acid refd. bots. lb. 2.50 - 3.50
Cinnamic alcohol, bots lb. 1.90 - 2.20
Cinnamic aldehyde, dms. lb. .95 - 1.23
Cinnamon, Ceylon No. 2, bgs. lb. .78 - —
Ceylon, "0000," bgs lb. .95 - —
Cinnamon bark oil, bots lb. 36.00 - 70.00
Cinnamon leaf oil, crude, dms lb. 1.35 - 2.00
USP (Cassia), cns., dms lb. 8.50 - 13.50
Citral, CP, bots lb. 3.00 - 3.65
Extra, bots. lb. 4.35 - 5.05

In the stomach, stubborn integrity;

in the intestine, swift dissolution—

***en français,* an accolade for**

cellulose acetate phthalate

In Paris, the City of Light, at 23, rue de l'Ecole-de-Médecine, there has been published a brochure bearing the title, "Les enrobages modernes des dragées et des pilules." It devotes itself in part to cellulose acetate phthalate, a substance of our invention.

States this magnificent document (as inadequately rendered into the English tongue by our own poor efforts):

"But the largest part of our work was reserved for cellulose acetate phthalate. This product is extremely insoluble in the acid solutions and its solubility in pancreatic medium is due in part to a fermenting action which can be produced independently of pH, but can equally work in an alkaline medium. According to the fine demonstration of our co-worker, (name omitted in this quotation from considerations of privacy), cellulose acetate phthalate is an ester which is hydrolyzed by esterase with a formation of acetic and phthalic acids and this explains all the interest in this new coating.

"We believe we have demonstrated that it combines all the qualities required of a true enteric coating: First, it is devoid of all toxicity; Second, the formula which we have used combines the conditions for forming on a core a coating layer of uniform distribution.

"Moreover, the numerous experiments effected, 'in vitro' and 'in vivo' gave absolutely corresponding results and demonstrated that: thirdly, acetate phthalate coating resists perfectly prolonged passage in the stomach surpassing, by far, even the base criteria which we have established.

"Fourthly, it disappears very rapidly in an intestinal medium and in a lapse of time which we may estimate as under a half hour, whether the medium be alkaline or acid. This last peculiarity, characteristic of acetate phthalate, ranks this coating incontestably at the head of all those which we have tried and allows us to conclude that among these it is practically the only one responding exactly to the requirements of the trade.

"Two important factors remain which we must not overlook in that they concern the pharmaceutical industry. Fifthly, the technique of applying this coating is extremely simple and rapid, and sixth, its price is slightly higher than that of other enteric coatings, but it remains within the normal limits and does not otherwise appreciably influence the cost of manufacture."

We shall gladly and at our own expense provide a translation of fifty pages from this comprehensive study of enteric coatings. Our distribution of the translation is not to be construed as adopting or recommending anything said or reported therein. Legal personalities stress this point.

The true, genuine Eastman Cellulose Acetate Phthalate (which has been applied to well over a billion doses during the past 18 years) bears the trademark "C-A-P." For the translation, procedural bulletin, descriptive folder, and prices, write *Distillation Products Industries,* Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies, Inc., West Coast • Charles Albert Smith Limited, Montreal and Toronto.

DPi

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Distillation Products Industries *is a division of* **Eastman Kodak Company**

Citric acid, USP, anhyd., fine gran., bgs., dms., c.l. lb. .29½- .30
bgs., dms., 10,000-lb. lots, 1 shipt lb. .30 - .30½
bgs., dms., smaller lots lb. .30½- .31
hydrous, fine gran. bgs., dms., c.l. lb. .27½- .28
bgs., dms., 10,000-lb. lots, 1 shipt lb. .28 - .28½
bgs., dms., smaller lots lb. .29 - .29½
Powdered citric acid ½c. higher
Citronella oil, Ceylon, dms. lb. .58 - 1.00
Java-type, dms. lb. .57 - 1.00
Citronellal, bots., dms. lb. 1.45 - 2.10
Citronellol, bots., dms. lb. 2.30 - 3.30
Civet, artif., bots. lb. 13.75 -15.00
Nat., bots. oz. 8.50 -15.00
Clay, ball., dom., airfloated, bgs., c.l., Tenn ton. 17.50 -21.50
crushed, shed moisture, bulk, c.l., Tenn. ton. 8.00 -11.00
Imp., airfloated, bgs., c.l., Atl. port net-ton. 42.00 -45.75
lump, bulk, Atl. port net-ton. 29.50 -35.75
Clay, China, dom., dry-grd., airfloated, 99%, 325 mesh, Georgia, bgs., c.l., works. ton. 10.00 -12.00
Georgia, bgs., l.c.l. works. ton. 15.50 - —
Clay, China, dom., airfloated, 99%, 300 mesh bgs., c.l., Georgia, works ton. 13.50 -14.50
bgs., l.c.l., ex-whse. ton. 35.00 -36.00
Clay, China, imp., white, lump, bulk, c.l., ex dock, Philadelphia, Portland, Me. long-ton. 20.00 -35.00
powd., bgs., c.l., ex dock. net-ton. 50.00 - —
bgs., l.c.l., ex whse. net-ton. 60.00 -70.00
Cleve's acid, mixed, bbls. lb. 1.05 - —
Cloves, Madagascar, bgs. lb. .38 - .39
Zanzibar, bgs. lb. .42 - —
Clove bud oil, USP, dms. lb. 2.60 - 3.35
Clove leaf oil, crude, dms. lb. 1.00 - 1.35
CMC, crude, 96.4% low or medium vis. bgs. or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb. .41½- —
96.4% low, or medium vis., bgs. or fib. dms., 23,000 lbs. dlvd. E., 100% basis lb. .43½- —
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .41½- —
bgs. or fib. dms., l.c.l., dlvd. E., 100% basis lb. .43½- —
CMC, purif. high vis. (see Cellulose gum).
CMC, standard, low or medium vis., bgs., 23,000 lbs., works, frt. alld lb. .57 - —
bgs., smaller lots, same basis. lb. .59 - —
CMC prices W. of the Rockies are 2c. per lb. lower and are on a works basis.
Coaltar, crude, resale for solns., tanks, works gal. .17 - —
Coaltar, refd., resale, indust., dms., c.l., ex whse. gal. .35 - —
dms., l.c.l., ex whse. gal. .39 - —
tanks, works gal. .20½- —
Coaltar pitch, aluminum, bulk, works ton. 44.00 - —
Carbon and indust., bulk, works. ton. 44.00 - —
Core, bulk, works ton. 40.50 - —
Fiber, bulk, works ton. 48.00 - —
Roofing, 140-155°F., Federal Specification RP-381 Type 1, tanks, works ton. 41.00 - —
Cobalt acetate, 23.7% Co., dms. dlvd lb. 1.10 - —
Cobalt blue, genuine, 250 lb. bbls., dlvd. E. of Rockies lb. 4.90 - —
Cobalt blue prices 1c. higher W. of Rockies.
Cobalt blue imitation (see Ultramarine blue).
Cobalt carbonate, 48% Co., powd., bgs., dlvd lb. 1.57 - —
Cobalt chloride, 24.2% Co., dms., dlvd lb. 1.05 - —
Cobalt hydrate, 60-61% Co., dms., dlvd. lb. 2.20 - —
Cobalt linoleate, fused 8½% Co., dms. lb. .71½- —
Liq., 6% Co., dms. lb. .57½- —
Cobalt metal, 97-99%, kgs., ex whse. lb. 2.00 - —
Cobalt naphthenate, liq., 6% Co., dms., dlvd lb. .48¾- —
Cobalt nitrate, 20.1% Co. bbls. dlvd. lb. .85 - —
Cobalt oxide, black, 72½-73½% Co., kgs. lb. 1.52 - —
70-71% Co., kgs. lb. 1.48 - —
Cobalt phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.43 - —
Cobalt resinate, fused, 3% Co. dms. lb. .29½- —
Cobalt sulfate, cryst., 21% Co, dms., dlvd lb. .69 - —
Cobalt sulfate, monohydrated, 33% Co, dms., dlvd lb. 1.17 - —
Cobalt tallate, 6% Co, dms., dlvd. lb. .44 - —
Cocaine, USP, ens., 100-oz. lots oz. 17.50 - —
Cocaine hydrochloride, ens., 100-oz. lots oz. 13.75 - —
Cocillana bark, bls. lb. .22 - —
Cocoa butter, bgs. lb. .89 - .94
Coconut oil, crude, tanks, New York lb. .20½ Nom.
tanks, Pac. coast lb. .17¼- —
Refd., deodorized, dms., l.c.l lb. .24 - —
Coconut oil acids, dist., dms. lb. .26½- .29
tanks lb. .24 - —
double dist. (stripped), dms lb. .27½- .30
tanks lb. .25 - —
Cod oil, dms., spot lb. .09¾- .09½
Codeine, NF, ens., 100-oz lots oz. 13.25 - —
Codeine hydrochloride, ens., 100-oz. lots oz. 11.75 - —
Codeine phosphate, USP, ens., 100-oz. lots oz. 10.25 - —
Codeine sulfate, USP, ens., 100-oz. lots oz. 10.75 - —
Codliver oil, USP, dms. gal. 1.40 - 1.45
Cohosh root, black, bls. lb. .20 - .22
Blue, bls. lb. .20 - .22
Colchicine, USP, bots. oz. 27.50 -31.00
Colchicum root, bls. lb. .35 - —
Colchicum seed, bgs. lb. .55 - —
Collodion, USP, dms. lb. .32½- —
Flexible, dms. lb. .34 - —
Colocynth pulp, bls. lb. .72 - —
Colombo root, bls. lb. .15 - .16
Condurango bark, bls. lb. .26 - —
Congo copal gum, No. 1, bgs. lb. .25 - .26
No. 2 bgs. lb. .22 - .24
No. 3, bgs. lb. .15¾- .17
Copaiba balsam, cns., dms. lb. .40 - .80
Copaiba oil, cns. lb. 1.75 - 2.50
Copper acetate, bbls., c.l., works. lb. .53 - —
bbls., l.c.l., works lb. .54 - —
Copper carbonate, 55%, bgs., c.l., works lb. .3340- —
bgs., l.c.l., works lb. .3490- —
Copper chloride, cupric, anhyd., dms., works lb. .43¼- .43¾
Cryst., dihydrate, dms., works. lb. .29½- .30
Cryst., dried, dms., works lb. .37¾- .38¼
Copper chloride, cuprous, dms., works lb. .3855- .4155
Copper cyanide, tech., dms., 20,000-lb. lots or more lb. .609 - —
dms., 1,000-lb. lots or more lb. .619 - —
dms., smaller lots lb. .639 - .659
Copper gluconate, dms. lb. 3.20 - —
Copper hydrate, dms., c.l., frt. alld. E. of Miss. lb. .50 - —
dms., l.c.l., same basis lb. .50½- —
Copper metal, electrolytic, dlvd. Valley basis lb. .29 - —
Copper naphthenate, liq., 8% Cu, dms., frt. alld. lb. .36½- —
Copper nitrate, tech., cryst., dms., works lb. .31¼- .31¾
Copper oleate, solid, 8% Cu, dms., works lb. .45 - —
Copper oxide, black, bbls., 100-5,000-lb. lots, works lb. .45¼- —
Copper oxide, red, 97%, USN, Type I, bbls., 100-5,000-lb. lots. lb. .46 - —
90% USN Type II, bbls., 100-5,000-lb. lots or more, works lb. .44 - —
Copper oxychloride, dms., c.l., works lb. .52 - —
dms., l.c.l., works lb. .53½- .63½
Copper quinolinolate, 18% Cu, dms., ton lots lb. 4.25 - —
10% active quinolinolate, dms lb. 1.14 1.15
Copper resinate, precip, dms., frt. alld lb. .36½- —
Copper sulfate, CP, gran., dms., works lb. .1855- —
Cryst., 99%, bgs., c.l., works. 100 lbs. 11.65 - —
bgs., l.c.l., works 100 lbs. 12.15 -14.65
Copper sulfate, monohydrated, 35%, dms., c.l., works 100 lbs. 22.10 - —
dms., l.c.l., works 100 lbs. 23.35 - —
Copper sulfate tribasic, distributors, bgs., c.l., works. 100 lbs. 26.40 - —
bgs., l.c.l., works 100 lbs. 27.40 -30.40
Copper undecylenate, dms. lb. 2.75 - —
Copra, Atl., Gulf ports, c.i.f. ton. 240.00 - —
Pac. ports, c.i.f. ton. 235.00 - —
Coriander oil, USP, bots. lb. 8.50 -11.50
Coriander seed, Moroccan, bgs. lb. .08¼- —
Rumanian, bgs. lb. .07 - —
Yugoslavian, bgs. lb. .08¼- —
Corn oil, crude, tanks, works lb. .12 - —
Foots (soapstock) acid 95%, tanks, New York lb. .04½ Nom.
Refd., salad, dms. lb. .1773- —
tanks lb. .1573- —
Corn oil acids, dist., dms. lb. .16¾- .19¼
tanks lb. .14¼- —
Corn starch (see Starch, corn).
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.33 - —
paper bgs., l.c.l. 100 lbs. 7.58 - —
Corn syrup, 42° Be., non-ret. dms., c.l. 100 lbs. 7.31 - —
non-ret. dms., l.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, USP, kilo or more gram 1.90 - 2.00
Costus oil, bots. oz. 6.00 - —
Cottonseed meal, 41%, bgs., Memphis ton. 66.00 - —
Cottonseed oil, crude, tanks, South, East lb. .11¼- .11¾
tanks, Valley lb. .10½- —
tanks, Texas, Lubbock lb. .10½- —
tanks, Texas, Waco lb. .10½- —
Foots (soapstock), acid 95%, tanks, New York lb. .04 - —
Refd., salad, dms. lb. .16¾- .16½
tanks lb. .14½- —
Cottonseed oil acids, dist., dms. lb. .16¾- .19¼
tanks lb. .14¼- —
Cottonseed pitch, raw, dms., works. lb. .03 - .03½
tanks, same basis lb. .02¾- —
Coumarin, NF, cryst., dms. lb. 3.60 - 3.70
Cramp bark, NF, bls. lb. .85 - .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys., lb. 3.05 - 3.20
Creosote, coaltar, crude, tanks, works, frt. adjusted gal. .22 - —
crude, soln. 50%, tanks, works, gal. .21 - —
refd., dms., c.l., works gal. .42 - .44
dms., l.c.l., same basis gal. .53 - .55
tanks, same basis gal. .33 - .35

West Coast creosote prices computed on a basis of 24c. per gallon for straight oil and 20c. per ballon for coaltar.

Creosote oil (see Creosote coaltar).
Creosote, beechwood, cbys., dms., f.o.b., works, dlvd. in Metropolitan area lb. 1.72 - 1.77
Hardwood, NF, cbys., dms., same basis lb. 1.42 - 1.47

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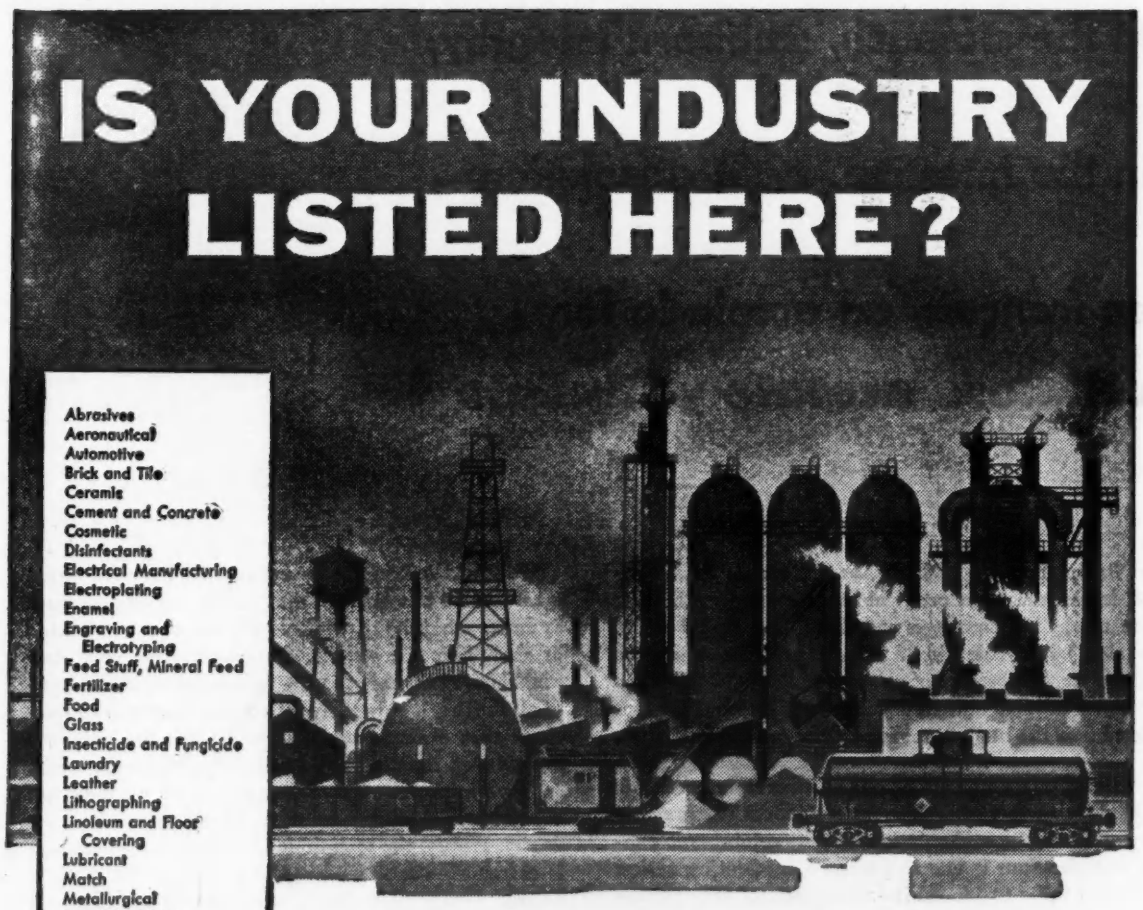

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Fertilizer
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Leather
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Lubricant
Match
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Oil Cloth
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Creosote, pinewood, dms., incl., c.l., works lb. .0561- —
dms. incl., l.c.l., works lb. .0634- —
dms. incl., l.c.l., ex whse, New York lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .16½- —
non-ret. dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .145 - —
Cresol, USP, non-ret. dms., c.l., same basis lb. .18 - —
non-ret. dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
m-Cresol, 95-98% dms., c.l., works. lb. .60 - —
dms., l.c.l., works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
2,97%, 2°C., dms., c.l., frt. equald. lb. .22 - —
dms., l.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
o-Cresol, 30.5°C., m.p. and over, ret. dms., c.l., frt. equald lb. .17 - —
ret. dms., l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
o-Cresol, 30°-30.49°C., m.p., dms., c.l., frt. equald lb. .16½- —
ret. dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14½- —
29°-29.9°C., m.p., dms., c.l., frt. equald lb. .16 - —
ret. dms., l.c.l., same basis lb. .17 - —
tanks, same basis lb. .14 - —
25°-28.9°C., m.p., dms., c.l., frt. equald. lb. .15 - —
ret. dms., l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Cresol, 98%, dms., c.l., dlvd. lb. .52 - —
dms., l.c.l., dlvd. lb. .53 - —
tanks, dlvd. lb. .49 - —
2,3-Cresotic acid, dms., ton lots, works lb. .70 - —
dms., smaller lots, works lb. .72 - —
p-Cresyl methyl ether, cns. lb. 1.80 - 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis gal. 1.15 - —
Cresylic acid, coaltar, dom., meta-para content 25% or less, dms., c.l. t.l., same basis gal. 1.20 - —
dms., l.c.l., same basis gal. 1.25 - —
tanks, frt. equald. gal. 1.00 - —
Cresylic acid, coaltar, imp., meta-para content, 25% or less, f.o.b. works, frt. equald. to competitive points, 50 dms. or more gal. 1.03½- —
less than 50 dms., same basis. gal. 1.05 - 1.15
tanks, same basis gal. 1.00 - —
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .25 - —
Crotonic acid, dms., 200 lbs. or more, l.c.l., works lb. .51 - —
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
bgs., l.c.l., works 100 lbs. 14.25 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .25 - —
Cubeb berries, NF, bgs lb. .90 - —
Powd., cs. lb. .95 - —
Cubeb oil, cns lb. 12.00 -15.00
Cumene, dms., c.l., works lb. .12 - —
dms., l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs lb. .35 - —
Moroccan, bgs. lb. No prices.
Turkish, bgs. lb. No prices.
Cumin seed oil, bots., cns. lb. 7.50 -15.50
Cutch extract, 55% tannin, bgs., ex dock lb. .07½- —
Cyanamide, fertilizer, mixing grade, 21% N, gran., bgs., Niagara Falls, Ont., contract ton. 57.00 - —
pulv., 21% N, bgs., works, unit-ton. 2.85 - —
Cyanamide, indust. grade, bgs., c.l., works ton. 75.00 - —
bgs., l.c.l., works ton. 96.00 - —
Indust. grade, 6-16 mesh, dms., c.l., works ton. 120.00 - —
dms., l.c.l., works ton. 140.00 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E. of Rockies gal. 1.02 - —
dms., l.c.l., same basis gal. 1.10 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. W. of Rockies gal. .77 - —
dms., l.c.l., same basis gal. .85 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E lb. .28½- —
dms., l.c.l., works, same basis. lb. .29½- —
tanks, works, same basis lb. .26 - —
Cyclohexanone, tech., dms., c.l., works lb. .34½- —
dms., l.c.l., works lb. .37 - —
tanks, works lb. .31 - —
Cyclohexylamine, dms., c.l., works. lb. .49 - —
dms., l.c.l., works lb. .50 - —
tanks, works lb. .47 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl. 48.00 - —
6-oz cyls., works cyl. 12.00 - —
Cyclopropane, USP, hospitals, cyls., 40-gal. lots gal. .42 - —
cyls., 100-gal lots gal. .41 - —
cyls., 200-gal. lots gal. .40 - —
Cypress oil, bots. lb. 5.30 - —

D

2,4-D, tech., bgs., dms., c.l., works, frt. equald lb. .40 - —
bgs., dms., l.c.l., same basis lb. .45 - .49
2,4-D butyl ester, dms., c.l., works. lb. .43 - —
dms., l.c.l., same basis lb. .48 - .52
tanks, same basis lb. .42 - —
2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms., l.c.l., works lb. .48 - .52
tanks, works lb. .42 - —
Dammar gum, Batavia A/E, cs. lb. No stocks.
East India, Batu, bold, bgs. lb. .13¾- .15
nubs and chips, bgs. lb. .08½- .09½
black, bold, bgs lb. .14½- .16½
nubs and chips, bgs. lb. .12¼- .13½
unscraped, bgs. lb. .13 - .14½
pale, chips, bgs. lb. .14½- .16
nubs, bgs. lb. .17¾- .20
Siam, cs. lb. .30 - .33
Singapore, No. 1, bgs lb. .36 - .41
No. 2, bgs lb. .29 - .32
No. 3, bgs lb. No stocks.
dust, bgs. lb. .17 - .19
Dandelion root, bls lb. .28 - —
DDD, tech., flake, grd., fib. dms., c.l., works lb. .45 - .47
fib. dms., l.c.l., works lb. .46 - .48
DDT, flake or lump, bgs., c.l., dlvd lb. .22 - —
bgs., smaller lots, same basis. lb. .24 - —
fib. dms., c.l., same basis lb. .23 - —
fib. dms., smaller lots, same basis lb. .25 - —
Powdered DDT 1c. per pound higher.
1-Decanol, tech., dms., c.l., dlvd lb. .41 - —
dms., l.c.l., dlvd lb. .43 - —
tanks, dlvd. lb. .38½- —
Decyl alcohol, mixed isomers, dms., c.l., dlvd lb. .23½- —
dms., l.c.l., dlvd lb. .24½- —
tanks, dlvd. lb. .21 - —
Perfume grade, bots lb. 1.75 - 2.00
Decyl alcohol, normal (see 1-Decanol).
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton. 51.00 - —
17% P. paper bgs., c.l., works ton. 60.00 - —
paper bgs., t.l., works ton. 60.75 - —
18% P. paper bgs., c.l., t.l., works ton. 69.12 - —
19% P. paper bgs. works, Houston, Tex., c.l., t.l ton. 71.50 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices
Degras, common, bbls lb. .10 - .12
Neutral, bbls. lb. .21 - .23
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .82
tanks, dlvd., same basis gal. .53½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .72 - —
dms., l.c.l., same basis gal. .77 - .83
tanks, same basis gal. .58 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, SD1, dms., dlvd E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .69 - —
dms., l.c.l., same basis gal. .74 - .80
tanks, same basis gal. .53 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
SD23A, dms., l.c.l., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
SD23H, dms., c.l. dlvd. E of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, same basis gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
Denatured alcohol, ethyl, SD-35A, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD-40, dms., c.l., dlvd E. of Rockies gal. .72 - —
dms., l.c.l., same basis gal. .77 - .83
tanks, same basis gal. .56 - —
For anhyd. alcohol on above formulas, prices are 7c. per gal. higher.
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.
d-Desoxyephedrine hydrochloride, dms lb. 15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 9.40 - —
paper bgs., l.c.l. 100 lbs. 9.55 - —
Dextrin, corn, canary dark, paper bgs., c.l 100 lbs. 9.24 - —
paper bgs., l.c.l. 100 lbs. 9.39 - —
Indust. grade, 6-16 mesh, dms., canary light, paper bgs., c.l. 100 lbs. 9.14 - —
paper bgs., l.c.l. 100 lbs. 9.29 - —
white, paper bgs., c.l 100 lbs. 8.98 - —
paper bgs., l.c.l 100 lbs. 9.13 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs higher.
Dextrin, potato, imp., bgs lb. .10½- .11

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Dextrose, hydrated, commercial, bgs., c.l., ex whse ..100 lbs. 7.60 - —
bgs., l.c.l., ex whse ..100 lbs. 7.70 - —
Anhydrous, commercial, bgs., c.l., ex whse ..100 lbs. 8.80 - —
bgs., l.c.l., ex whse ..100 lbs. 8.90 - —
Special anhydrous, al. foil lined fib dms., 200-lb. dms ..100 lbs. 14.70 - —
100-lb. dms ..100 lbs. 15.20 - —
USP, dms. ..lb. .19¾-
Diacetyl, flavor grade, bots ..lb. 4.30 - 4.55
Di-sec-amyl phenol, dms., c.l., works ..lb. .32 - —
dms., l.c.l., works ..lb. .33 - —
tanks, works ..lb. .29½-
Di-tert-amyl phenol, dms., c.l., works ..lb. .32 - —
dms., l.c.l., works ..lb. .33 - —
tanks, works ..lb. .29½-
Diacetone alcohol, acetone-free, dms., c.l., dlvd ..lb. .15½-
dms., l.c.l., dlvd ..lb. .16½-
tanks, dlvd ..lb. .13 - —
Diacetone alcohol, tech., dms., c.l., dlvd ..lb. .15 - —
dms., l.c.l., dlvd ..lb. .16 - —
tanks, dlvd. ..lb. .12½-
Diallylamine, dms., c.l., dlvd ..lb. .985 - —
dms., l.c.l., dlvd ..lb. .995 - —
tanks, dlvd. ..lb. .96 - —
o-Dianisidine, dry, tech., fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .93 - —
dms., l.c.l., same basis ..lb. .94 - —
tanks, same basis ..lb. .91 - —
p-Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Dibutyl fumarate, dms., c.l., t.l., frt. alld ..lb. .33 - —
dms., l.c.l., l.t.l., frt. alld ..lb. .34 - —
tanks, frt. alld ..lb. .30½-
Dibutyl maleate, dms., c.l., t.l., frt. alld ..lb. .33 - —
dms., l.c.l., l.t.l., dms, frt. alld ..lb. .34 - —
tanks, frt. alld ..lb. .30½-
Dibutyl phthalate, dms., c.l., dvd. E. lb. .32½-
dms., l.c.l., same basis ..lb. .33½-
tanks, same basis ..lb. .30 - —
Dibutyl sebacate, dms., c.l., works. lb. .67½-
dms., l.c.l., works ..lb. .68½-
tanks, works ..lb. .65½-
Dibutyl tartrate, dms., works, frt. alld ..lb. .65½-
Dibutylamine, dms., c.l., dlvd ..lb. .55½-
dms., l.c.l., same basis ..lb. .56½-
tanks, same basis ..lb. .53 - —
2,6-Di-tert-butyl-p-cresol, food grade, dms., t.l., c.l., dlvd ..lb. 1.20 - —
dms., l.t.l., dlvd ..lb. 1.24 - —
Feed grade, to vitamin premix distributors, dms., c.l., t.l. dlvd ..lb. 1.05 - —
dms., l.c.l., same basis ..lb. 1.07 - —
2,6-Di-tert-butyl-p-cresol, tech., dms., c.l., dlvd ..lb. .91 - —
dms., l.c.l., dlvd ..lb. .95 - —
tanks, dlvd. ..lb. .86 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .31 - .32
dms., l.c.l., dlvd ..lb. .32 - .33
tanks, dlvd. ..lb. .27½- —
Dicapryl sebacate, dms., c.l., works. lb. .63 - —
dms., l.c.l., works ..lb. .63½- .64
tanks, works ..lb. .61 - —
Dichlorophenoxyacetic acid (see 2,4-D).
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms., l.c.l., same basis ..lb. .13¾- —
tanks, same basis ..lb. .11 - —
p-Dichlorobenzene, dms., c.l., f.o.b., works, frt. alld. E lb. .12 - —
dms., 2,000 lbs. or more same basis. lb. .14½- —
1,4,-Dichlorobutane, dms., c.l. or t.l., works ..lb. .33½- —
dms., l.c.l., or l.t.l., works ..lb. .34 - —
tanks, works ..lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd. E ..lb. .15½- —
dms., l.c.l., l.t.l., same basis ..lb. .16½- —
tanks, same basis ..lb. .13 - —
Dichloropentanes, dist., dms., c.l., works ..lb. .05 - —
dms., l.c.l., works ..lb. .06 - —
tanks, works ..lb. .03 - —
Dicyclohexylamine, dms., c.l., works. lb. .54 - —
dms., l.c.l., works ..lb. .55 - —
tanks, works ..lb. .52 - —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld lb. .59½- —
fib. dms., l.c.l., same basis lb. .60 - —
Didecyl phthalate, dms., c.l., works. lb. .34 - —
dms., l.c.l., same basis ..lb. .35 - —
tanks, same basis ..lb. .31½- —
Dieldrin, dms., dlvd ..lb. 1.85 - —
dms., l.c.l., dlvd ..lb. 1.90 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .27 - —
dms., l.c.l., same basis ..lb. .28 - —
tanks, same basis ..lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l. frt. alld lb. .26 - —
dms., l.c.l., frt. alld ..lb. .27 - —
tanks, frt. alld ..lb. .23 - —
Diethyl barbituric acid (see Barbital).
Diethylbenzene, dms., t.l., frt. alld. lb. .16½- —
dms., l.t.l., same basis ..lb. .18½- —
Diethyl carbonate, dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., same basis ..lb. .48½- —
tanks, same basis ..lb. .45 - —
Diethyl ethanolamines, dms., c.l., dlvd lb. .69½- —
dms., l.c.l., dlvd ..lb. .70½- —
tanks, dlvd. ..lb. .67 - —
Diethyl oxalate, dms., c.l., f.o.b. works lb. .42½- —
dms., l.c.l., same basis ..lb. .43½- —
tanks, same basis ..lb. .40 - —
Diethyl phthalate, dms., c.l., dlvd. lb. .31½- —
dms., l.c.l., dlvd ..lb. .32½- —
tanks, dlvd. ..lb. .29 - —
Diethyl sulfate, dms., c.l., works lb. .19½- —
dms., l.c.l., works ..lb. .20¼- —
tanks, works ..lb. .17½- —
Diethyl toluamide, 90-95% meta isomer, dms., c.l., t.l., works lb. 2.30 - —
5-44 dm lots, works ..lb. 2.35 - —
1-4 dm lots, works ..lb. 2.40 - —
Diethylamine, dms., c.l., dlvd. E lb. .52 - —
dms., l.c.l., same basis ..lb. .53 - —
tanks, same basis ..lb. .49½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis ..lb. .58 - —
tanks, same basis ..lb. .55 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E lb. .17¾- —
dms., l.c.l., same basis ..lb. .18¾- —
tanks, same basis ..lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .51½- —
dms., l.c.l., works ..lb. .52¼- —
Diethylene glycol monobutyl ether, c.l., dms., works lb. .30¾- —
dms., l.c.l., works ..lb. .31¾- —
tanks, dlvd. E ..lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works lb. .30¾- —
dms., l.c.l., works ..lb. .31½- —
tanks, dlvd. E ..lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd lb. .22½- —
dms., l.c.l., dlvd ..lb. .23½- —
tanks, dlvd. E ..lb. .20 - —
Diethylene glycol monoethyl ether acetate, dms., c.l., works lb. .27¼- —
dms., l.c.l., works ..lb. .28 - —
tanks, dlvd. E ..lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., dlvd lb. .21 - —
dms., l.c.l., dlvd ..lb. .22 - —
tanks, dlvd. E ..lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E ..lb. .45 - —
tanks, dlvd. E ..lb. .41½- —
Dienestrol, USP, bots., 10-kilo lots kilo. 100.00 - 147.50
bots., 1-kilo lot ..kilo. 110.00 - 152.50
Digitalis leaves, USP, dom., dms lb. 1.20 - —
Digitoxin, USP, bots. ..gram. 4.00 - 4.50
Diglycol laurate, dms ..lb. .32¾- .34
Diglycol stearate, dms., ton lots lb. .26 - .28
Diglycolic acid, bgs., works ..lb. .14 - —
Dihexyl sebacate, dms., c.l., works. lb. .66 - —
dms., l.c.l., works ..lb. .67 - —
tanks, works ..lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk ..gram. .07 - —
Dihydrostreptomycin sulfate, bulk. gram. .07 - —
1,2-Dihydroxy anthraquinone, dms., works lb. 2.75 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms. lb. 2.55 - —
tech., dms. ..lb. 1.60 - —
Di-isobutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd ..lb. .18 - —
tanks, dlvd. ..lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E lb. .31½- —
dms., l.c.l., same basis ..lb. .32½- —
tanks, same basis ..lb. .29 - —
Di-isobutylene, dms., c.l., dlvd. E lb. .10 - —
dms., l.c.l., dlvd. E ..lb. .11½- —
tanks, dlvd. E ..lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd ..lb. .30½- —
dms., l.c.l., same basis ..lb. .31½- —
tanks, same basis ..lb. .28 - —
Di-iso-octyl sebacate, dms., c.l., works ..lb. .62 - —
dms., l.c.l., works ..lb. .62½- .63
tanks, works ..lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .33¼- —
dms., l.c.l., same basis ..lb. .34¼- —
tanks, same basis ..lb. .30¾- —
Di-isopropylamine dms., c.l., dlvd. E. of Rockies lb. .50½- —
dms., l.c.l., same basis ..lb. .51½- —
tanks, same basis ..lb. .48 - —
Dillseed, Indian, dewhiskered, bgs. lb. .12 - —
Dillseed oil, bots. ..lb. 2.80 - 3.00
Dillweed oil, dom., bots., dms. lb. 3.10 - 4.10
Dimethyl anthranilate, cns. ..lb. 4.85 - 5.10
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd. lb. 1.225 - —
dms., l.c.l., dlvd. ..lb. 1.235 - —
tanks, dlvd. ..lb. 1.20 - —
70% dms. c.l., dlvd., 100% basis, contained amines lb. .62½- —
dms., l.c.l., dlvd., 100% basis lb. .63½- —
tanks, dlvd., 100% basis ..lb. .60 - —
Dimethyl hydroquinone, dms. ..lb. 1.90 - 2.20
Dimethyl phthalate, dms., c.l., works. lb. .32 - —
dms., l.c.l., works ..lb. .33 - —
tanks, works ..lb. .29½- —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works ..lb. 1.36 - —
tanks, works ..lb. 1.23 - —
Dimethyl sulfate, 85-gal. ret. dms., c.l., works lb. .15 - —
55-gal. ret. dms., l.c.l., works lb. .16 - —
10-gal. ret. dms., l.c.l., works lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .16½- —
dms., l.c.l., works ..lb. .17 - —
tanks, works ..lb. .15 - —

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5951

Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis.lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis.lb. .28 - —
40% soln., dms., c.l., frt. equald., 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, frt. equald, 100% basis. lb. .28 - —

N,N-Dimethylaniline, dms., c.l., frt. alld lb. .30 - —
dms., l.c.l. frt. alld. ..... lb. .31 - —
tanks, frt. alld. ..... lb. .28 - —

N,N-Dimethylformamide, dms., works. lb. .34 - .39
tanks, works .. .. lb. .32 - —

2,4-Dinitroaniline, dms., frt. alld lb. .75 - —

Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies lb. 1.56 - —
Dinitroaniline orange toner prices 1c. higher W of Rockies.

m Dinitrobenzene, 85°C., dms. .. lb. .22 - —
89° C., dms ..... lb. .24 - —

2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E lb. .15¼- —
dms., l.c.l., frt. alld. E. ..... lb. .15¾- —
tanks, frt. alld. E. ..... lb. .15 - —

2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt. alld. E lb. .20¼- —
dms., l.c.l., frt. alld. E. ..... lb. .20¾- —
tanks, frt. alld E. ..... lb. .20 - —

2,4-Dinitrophenol, bbls. ..... lb. .37 - —
2,4-Dinitrotoluene, oily, dms. ... lb. .11 - —
Refd., 63°C., dms. ..... lb. .23 - —
Dioctyl adipate dms. c.l., works. lb. .42½- —
dms., l.c.l. works ..... lb. .43½- —
tanks, works ..... lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .30½- —
dms., l.c.l. frt. alld. ..... lb. .31½- —
tanks, frt. alld. ..... lb. .28 - —
Dioctyl sebacate, dms., c.l., works. lb. .61¼- —
dms., l.c.l., works ..... lb. .62¼- —
tanks, works. dlvd. ..... lb. .59¼- —
1,4-Dioxane, dms., c.l. works... lb. .30 - —
dms., l.c.l. works ..... lb. .30¾- —
tanks, works ..... lb. .28 - —
Dipentaerythritol, c.l., t.l., dlvd. E.lb. .38 - —
bgs., l.c.l. l.t.l., dlvd. E. .. lb. .39 - —
Dipentene, dest.-dist., dms., c.l., works gal. .59 - —
dms., l.c.l., works ..... gal. .63 - —
dms., l.c.l., ex whse. ..... gal. .79 - —
tankcars, works ..... gal. .42 - —
Dipentene, steam dist., dms., c.l., works, South gal. .72 - —
dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South ..... gal. .55 - —
Dip oil (see Tar acid oil)
Diphenyl, bgs., c.l., t.l., works lb. .17¼- —
bgs., l.c.l., works ..... lb. .19 - —
tanks, works ..... lb. .16 - —
Diphenyl oxide, perfume grade, ens. lb. .65 - .85
Diphenyl phthalate dms., c.l., works. lb. .51¾- —
dms., l.c.l. works ..... lb. .53¾- —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald lb. .33 - —
bgs., l.c.l., same basis .... lb. .35 - —
Diphenylamine, refd., fused tanks, same basis lb. .30 - —
Refd. diphenylamine in dms. ½c. per lb. higher.
Diphenylguanidine, bgs., dms., ton, lots, frt. alld. lb. .49 - —
bgs., smaller lots, frt. alld. ....lb. .50 - —
Diphenylhydantoin-sodium, USP, dms. lb. 5.09 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17¾- —
dms., l.c.l., frt. alld. ..... lb. .18¾- —
tanks, frt. alld. ..... lb. .15¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .20 - —
dms., l.c.l., same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.45 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld lb. .69 - —
dms., smaller lots, frt alld. .... lb. .70 - —
Divi-divi, 45% tannin, bgs., bls., c.l., US ports, ex dock ton.76.00 Nom.
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald lb. .20 - —
dms., l.c.l., same basis ..... lb. .21 - —
tanks, same basis ..... lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis.lb. 1.05 - —
Dodecylbenzene, dms., c.l., f.o.b., works, frt. equald lb. .14 - —
dms., l.c.l., same basis ..... lb. .15 - —
tanks, same basis ..... lb. .117 - —
Dodecylphenol, c.l., frt. alld. .... lb. .22 - —
dms., l.c.l., same basis..... lb. .23 - —
tanks, same basis..... lb. .19½- —
Dodecylphenol prices on shipments to Western States are 2c. per pound higher.

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:
Blue, FD&C, No. 1 ..... lb.15.65 -17.60
No. 2 ..... lb.15.65 -17.60
Green, FD&C, No 1 ..... lb.15.65 -17.60
No. 2 ..... lb.19.60 -22.85
No. 3 ..... lb.31.30 -35.90
Red, FD&C, No. 1, ens. ..... lb. 5.90 - 7.85
No. 2 ..... lb. 3.30 - 4.10
No. 3 ..... lb.19.60 -22.85
No. 4 ..... lb. 5.55 - 7.50
Violet, FD&C, No. 1, ens. ..... lb.15.65 -17.60
Yellow, FD&C, No. 1, ens. ..... lb. 9.15 -11.05
No. 5 ..... lb. 3.30 - 4.10
No. 6 ..... lb. 3.30 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—
Black, D&C, No. 1 ..... lb.10.50 -10.95
Brown, D&C, No. 1 ..... lb.15.65 -16.10
Green, D&C, No. 5 ..... lb.15.65 -16.10
No. 6 ..... lb.15.65 -16.10
No. 7 ..... lb.14.35 -14.80
Orange, D&C, No. 3 ..... lb.10.50 -10.95
No. 4 ..... lb.19.60 -20.05
No. 5 ..... lb. 3.80 - 4.25
Red, D&C, No. 17 ..... lb.10.50 -10.95
No. 18 ..... lb.23.60 -24.00
No. 19 ..... lb.15.00 -15.45
No. 21 ..... lb. 3.90 - 4.35
No. 22 ..... lb.10.50 -10.95
No. 28 ..... lb.24.15 -24.65
No. 33 ..... lb.17.00 -17.45
Violet, D&C, No. 2 ..... lb.15.65 -16.10
Yellow, D&C, No. 7..... lb.10.50 -10.95
No. 8 ..... lb.10.50 -10.95
No. 10 ..... lb.13.05 -13.50
No. 11 ..... lb.13.05 -13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots dlvd:—
Blue, Ext., D&C, No. 1, ens....lb.15.65 -16.10
Green, Ext., D&C, No. 1, ens....lb.15.65 -16.10
Red, Ext., D&C, No. 1, ens.....lb.13.05 -13.50
Yellow, Ext., D&C, No. 1, ens. .lb.10.50 -10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.
20 Chrysoidine Y dustless....lb. .89 - —
27 Fast light, orange 2G.....lb. 1.29 - —
31 Phloxine 2G .....lb. 1.05 - —
36 Yellow 2G .....lb. 1.18 - —
40 Orange R, extra, conc...lb. 1.52 - —
57 Fuchsine 6B .....lb. 1.55 - —
79 Scarlet 2R .....lb. 1.16 - —
151 Orange AD .....lb. .79 - —
161 Orange .....lb. .94 - —
176 Fast Red A, conc .....lb. 1.53 - —
179 Rubine XX, conc .....lb. 1.47 - —
180 Blue F4B .....lb. 1.31 - —
185 Brilliant scarlet 3RN, conc. lb. 1.20 - —
202 Chrome blue black R, conc. lb. 1.07 - —
203 Chrome black T .....lb. .92 - —
208 Fast blue SR .....lb. 1.30 - —
234 Brown Y .....lb. 1.27 - —
246 Blue black, extra, conc ... lb. 1.37 - —
275 Milling red 3R, conc .... lb. 1.91 - —
289 Navy blue 3R, conc ..... lb. 1.70 - —
299 Black F, conc ..... lb. 2.19 - —
304 Neutral black 2B, conc lb. 2.61 - —
326 Fast scarlet 4BNC ..... lb. 2.12 - —
332 Brown, RX, conc ..... lb. 1.35 - —
365 Brilliant yellow, conc.... lb. 3.11 - —
382 Scarlet B .....lb. 2.60 - —
401 Diazo black BHD ..... lb. .93 - —
406 Blue 2B, extra conc.....lb. 1.53 - —
419 Red FC .....lb. 1.45 - —
420 Brown M .....lb. 1.40 - —
448 Red 4BX, conc .....lb. 1.69 - —
518 Diamine sky blue FF, extra, conc lb. 1.95 - —
561 Brown B .....lb. 2.89 - —
581 Black EB, 200% .....lb. 1.33 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype) contract dlvd No
593 Green BY, conc ..... lb. 1.02 - —
596 Yellow brown K, extra .. lb. 1.26 - —
620 Yellow 2G .....lb. 1.31 - —
639 Fast Yellow GG ..... lb. 2.32 - —
640 Yellow XX .....lb. 2.30 - —
655 Yellow OX .....lb. 2.45 - —
657 Malachite green V, crystals.lb. 2.73 - —
662 Brilliant green G .....lb. 3.62 - —
667 Milling green 6B, conc ... lb 4.78 - —
671 Blue EG .....lb 1.85 - —
681 Crystal violet powder ... lb. 2.15 - —
698 Violet 6BN powder ..... lb. 2.25 - —
720 Brilliant blue BBG ..... lb. 2.44 - —
729 Blue B, extra conc ..... lb. 3.61 - —
749 Red BX .....lb. 4.76 - —
800 Chinoline yellow ZSS .... lb. 2.67 - —
814 Yellow NN, conc .....lb. 3.67 - —
841 Safranine GF, extra, conc lb 4.11 - —
860 Induline base ZM ..... lb. 1.07 - —
885 Nigrosine J .....lb 4.76 - —
922 Blue GXX .....lb. 2.22 - —
978 Black GXCF, conc ..... lb. .38 - —
1034 Alizarin red SC .....lb. 3.31 - —
1078 Alizarin syanine green base Z lb 6.13 - —
1085 Alizarin blue black B .. lb. 3.02 - —
1096 Golden orange GFD, single paste lb. 2.58 - —
1099 Dark blue BO, single paste lb. 2.28 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract dlvd. No.
1101 Jade green N supra, double paste lb 1.55 - —
1106 Blue RS double paste lb 3.85 - —
1113 Blue BLFD double paste lb. 2.92 - —
1151 Brown R single paste lb. 2.29 - —
1171 Indigo synthetic 20% paste lb. .31 - —
1217 Orange RD double powder, lb. 4.60 - —
p-4 Brown PG ..... lb 3.00 - —
p-24 Grav L ..... lb. 2.08 - —
p-80 Diazo brilliant scarlet ROAD lb 3.62 - —
p-202 Diazo black VJ conc .... lb. 2.48 - —
p-244 Brilliant scarlet BN .... lb. 1.70 - —
p-313 Naphthol SWF ..... lb. 1.76 - —

Dyes, coaltar, oil-soluble, 100-lb. drums dlvd. No.
24 Oil orange Z-7078 ..... lb 1.06 - —
73 Oil Scarlet BL ..... lb. 1.70 - —
1073 Oil violet ZIRS .....lb. 6.81 - —
1078 Alizarin green CG ..... lb. 3.53 - —
1080 Oil violet special Z .....lb 6.81 - —
Oil black ZBC .....lb. 4.46 - —
Oil black ZBD .....lb. 3.03 - —
Oil black ZHH .....lb. 4.[illegible] - —
Oil black ZMM .....lb. [illegible] - —
Oil blue ZN .....lb. 8.02 - —
Oil blue ZV .....lb. 4.95 - —
Oil orange ZMG .....lb. 1.32 - —
Oil red N-1700 .....lb. 1.76 - —
Oil yellow ZG conc .....lb. 6.33 - —

dimethyl phthalate
diethyl phthalate
di-(methoxyethyl) phthalate
di-isobutyl phthalate
dibutyl phthalate
di-isooctyl phthalate (DIOP)
dioctyl phthalate (DOP)

Eastman
PLASTICIZERS

dioctyl adipate (DOA)
dioctyl azelate (DOZ)
plasticizer 84
—an octyl butyl phthalate
polymeric plasticizer NP-10
triacetin
tributyrin

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KINGSPORT, TENNESSEE
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SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee; New York City; Framingham, Mass.; Cincinnati; Cleveland; Chicago; Houston; St. Louis. West Coast: Wilson Meyer Co., San Francisco; Los Angeles; Portland; Salt Lake City; Seattle.

Dyes, coaltar, spirit soluble, 100-lb. dms., dlvd. No.
p-517 Spirit yellow 2R conc....lb. 4.62 - —
p-520 Spirit orange ZR conc....lb. 5.87 - —
Spirit black RB .....lb. 3.54 - —
Spirit brown ZG.....lb. 5.30 - —
Spirit red B conc.....lb. 6.41 - —

E

Echinacea root, bls .....lb. 1.10 - —
Egg albumin (see Albumin).
Egg yolk, dried, dom., bbls.....lb. 1.33 - 1.35
tanners, bbls. .....lb. .06 - .06½
Elm bark, grinding bls. .....lb. .30 - .32
Powd., bbls, bxs. .....lb. .45 - —
Select, bundles .....lb. .75 - —
Emetine hydrochloride, USP, bots. oz.42.00 -48.25
Endrin, tech., dms., t.l., dlvd.....lb. 3.44 - —
Eosin red toner, bbls., works.....lb. 1.85 - —
Ephedrine, syn., USP, anhyd., bots. 100-oz. lots oz. .98 - 1.00
hydreus bots. 100-oz. lots oz. .92 - —
Ephedrine hydrochloride, NF, dms., oz. .60 - .65
Ephedrine sulfate, USP, cryst., dms., oz. .60 - .80
Powd., dms. .....oz. .60 - .80
Epichlorohydrin, dms., c.l., dlvd..lb. .35½- —
dms., l.c.l., dlvd.....lb. .36½- —
tanks, dlvd .....lb. .33 - —

1-Epinephrine base, syn., USP, bots., 100 gram lots..gram. .58 - —
Epsom salt (see Magnesium sulfate).
Erigeron oil, cns. .....lb.11.00 - —
Ergot, NF, dms., tin-lined.....lb. 1.60 - —
Eserine salicylate, bots.....oz.72.50 -84.00
Eserine sulfate, bots. .....oz.87.75 - —
1-Epinephrine base, syn., USP bots.,
Ester gum, gum-rosin type, dms., c.l., dlvd., Ill., Md., Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. .....lb. .17 - —
Ester gum, wood-rosin type, dms., c.l., same basis lb. .17 - —
Ether (see specific product).
Ethyl acetate, nat., ferment, 85-88%, dms., c.l., frt. alld..lb. .15 - —
dms., l.c.l., dlvd. .....lb. .16 - —
tanks, dlvd. .....lb. .12½- —
85-98%, dms., c.l., dlvd. ..lb. .15¼- —
dms., l.c.l., dlvd. .....lb. .16¼- —
tanks, dlvd. .....lb. .12¾- —
99%, dms., c.l., dlvd. .....lb. .15½- —
dms., l.c.l., dlvd. .....lb. .16½- —
tanks, dlvd. .....lb. .13 - —
Syn., 85-88%, dms., c.l., dlvd..lb. .15 - —
dms., l.c.l., dlvd. .....lb. .16 - —
tanks, dlvd. .....lb. .12½- —
85-98%, dms., c.l., dlvd. ..lb. .15¼- —
dms., l.c.l., dlvd. .....lb. .16¼- —
tanks, dlvd. .....lb. .12¾- —
99% dms., c.l., dlvd. .....lb. .15½- —
dms., l.c.l., dlvd. .....lb. .16½- —
tanks, dlvd. .....lb. .13 - —

Ethyl acetoacetate, dms., c.l., dlvd. .....lb. .58½- —
dms., l.c.l., dlvd. .....lb. .59½- —
tanks, dlvd. .....lb. .56 - —
Ethyl acrylate, dms., c.l., t.l., dlvd. .....lb. .36 - —
dms., l.t.l., dlvd. .....lb. .37 - —
tanks, dlvd. .....lb. .34 - —
Ethyl alcohol, 190 pf., USP, tax paid dms., c.l., dlvd. E. of Rockies..gal.20.63 - —
dms., l.c.l., same basis..gal.20.68 -20.74
tanks, same basis .....gal.20.47 - —
Ethyl alcohol, 190 pf., USP, tax-free, dms., c.l., dlvd E. of Rockies .gal. .68 - —
dms., l.c.l., same basis..gal. .73 - .79
tanks, same basis .....gal. .52 - —
Ethyl alcohol, absolute, 200 pf., tax paid, dms., dlvd. E. of Rockies..gal.21.75 - —
dms., l.c.l., same basis..gal.21.80 -21.86
tanks, same basis .....gal.21.59 - —
Ethyl alcohol, denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate, USP (see Benzocaine).
Ethyl amyl ketone, dms., c.l., dlvd. .....lb. .20 - —
dms., l.c.l., same basis .....lb. .21 - —
tanks, same basis .....lb. .17½- —
Ethyl benzoate, bots. .....lb. .90 - —
Ethyl bromide, tech., 96%, dms., c.l., frt. alld.E .lb. .43 - —
dms., l.c.l., frt. alld. E ....lb. .45 - —
tanks, frt. alld. E. .....lb. .41 - —
2-Ethyl butyl alcohol, dms., c.l., works..lb. .30 - —
dms., l.c.l., works.....lb. .30¾- —
tanks, works .....lb. .28 - —
Ethyl butyl ketone, dms., c.l., t.l., works..lb. .36 - —
dms., l.c.l., l.t.l., works .....lb. .36¾- —
tanks, works .....lb. .34 - —

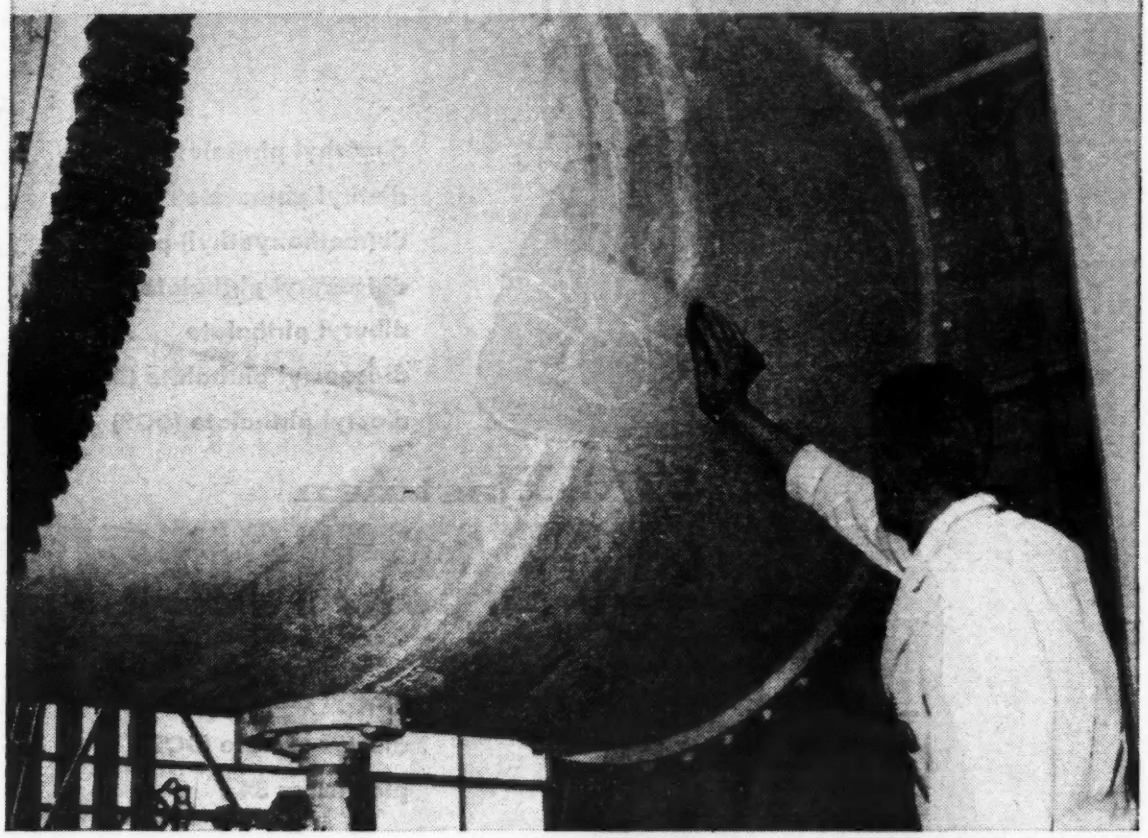
Ethyl butyrate, works..... lb. .90 - 1.00
Ethyl carbamate (see Urethane).
Ethyl cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .73 - —
bgs., smaller lots, frt. alld. E lb. .75 - —
Ethyl cellulose, vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E. lb. .68 - —
bgs., smaller lots, frt. alld. E. lb. .70 - —
Ethyl chloride, tech., cyls., works. lb. .20 - .22
dms., works .....lb. .18 - .20
tanks, works .....lb. .10 - —
Ethyl cinnamate, cns. ..... lb. 3.35 - 3.50
Ethyl ethanolamines, mixed, dms., c.l., dlvd. E lb. .43½- —
dms., l.c.l., dlvd. E .....lb. .44½- —
tanks, dlvd. E. .....lb. .41½- —
Ethyl ether, absolute, ACS, dms lb. .27 - —
Anesthesia, USP, dealers, 1-lb cns lb. 1.01 - —
½-lb. cns. .....lb. 1.09 - —
¼-lb. cns. .....lb. 1.21 - —
Ethyl ether, indust. dms., c.l., dlvd. .....lb. .13½- —
dms., l.c.l., dlvd. E. .....lb. .14½- —
tanks, dlvd. E. .....lb. .11 - —
2-Ethyl hexoic acid dms., c.l., t.l., dlvd. E lb. .37 - —
dms., l.c.l., l.t.l., dlvd. E. .... lb. .38 - —
tanks, dlvd. E .....lb. 34½- —
(2-Ethyl hexoic acid, 1c. higher W. of Rockies).
2-Ethylyhexyl acrylate, c.l. or t.l., straight or mixed frt. alld. E lb. .47½- —
dms., l.t.l., same basis.....lb. .48½- —
tanks, same basis .....lb. .45 - —
Prices of 2-ethylhexyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
2-Ethylhexyl alcohol, dms c.l., dlvd. .....lb. .23¾- —
dms., l.c.l., dlvd. .....lb. .24¾- —
tanks, dlvd. .....lb. .21¼- —

Ethyl iodide, cbys., works .... lb. 3.30 - —
Ethyl methacrylate, dms., c.l., frt. equald lb. .52 - —
dms., l.t.l. frt. equald. .....lb. .52½- —
tanks, frt. equald. .....lb. .50 - —
Ethyl morphine hydrochloride, USP, bots .oz.11.85 - —
Ethyl nitrite (see Nitrous ether).
Ethyl oenanthate, dms. ..... lb. 1.20 - 1.50
Ethyl oxalate (see Diethyl oxalate).
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate, 40% available SiO_2, dms., c.l., dlvd lb. .44½- —
dms., l.c.l., dlvd. .....lb. .45½- —
tanks, dlvd. .....lb. .42 - —
N-Ethyl-a-naphthylamine, dms., works. lb. 1.02 - —
N-Ethyl-o-toluidide, bbls. .....lb. .88 - —
Ethylamine (see Mono-, Di-, or Tri-).
N-Ethylaniline, dms., c.l., frt. alld. .....lb. .57 - —
dms., l.c.l., frt. alld. .....lb. .58 - —
tanks, frt. alld. .....lb. .55 - —
Ethylbenzene, 99%, dms., c.l. or t.l., frt. equald..lb. .15 - —
dms., l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .12½- —
2-Ethylbutyl alcohol, dms., c.l., works lb. .30 - —
dms., l.c.l., works.....lb. .30¾- —
Ethylene, contract, ref'y. gate....lb. .0475- .0525
Ethylene dibromide, dms., c.l., frt. equald..lb. .30½- —
dms., l.c.l. frt. equald. .....lb. .31½- —
tanks, frt. equald .....lb. .28½- —
Ethylene dichloride, dms., c.l., dlvd. .....lb. .11½- —
dms., l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .09 - —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Ethylene glycol, indust., dms., c.l., dlvd. E..lb. .16 - —
dms., l.c.l., same basis.....lb. .17 - —
tanks, same basis .....lb. .13½- —
Ethylene glycol monobutyl ether, dms., c.l., dlvd. E lb. .22 - —
dms., l.c.l., dlvd. E. .....lb. .23 - —
tanks, dlvd E. .....lb. .19½- —
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E. .....lb. .22 - —
tanks, dlvd. E. .....lb. .18½- —
Ethylene glycol monoethyl ether, acetate, dms., c.l., dlvd. E .lb. .19½- —
dms., l.c.l., dlvd. E. .....lb. .20½- —
tanks, dlvd., E. .....lb. .17 - —
Ethylene glycol monomethyl ether, dms., c.l., dlvd. E .lb. .21 - —
dms., l.c.l., dlvd. E. .....lb. .22 - —
tanks, dlvd., E. .....lb. .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., dlvd. E .lb. .29 - —
dms., l.c.l., dlvd. E. .....lb. .29¾- —
tanks, dlvd. E. .....lb. .27 - —
Ethylene glycol monostearate, triple pressed, dms. .lb. .33 - .35
Ethylene oxide, dms. c.l., dlvd. E. .....lb. .21½- —
dms., l.c.l., dlvd. E. .....lb. .24½- —
tanks, dlvd. E. .....lb. .15½- —
Ethylene trichloride (see Trichloro-ethylene)
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis lb. .42 - —
dms., l.c.l., dlvd. E., 100% basis. .....lb. .43 - —
tanks, dlvd. E., 100% basis lb. .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. lots and over. lb. 6.75 - —
Eucalyptol, USP, cns., dms.....lb. .95 - 1.40
Eucalyptus oil, NF, rectified, 70-75%, dms. .lb. .61 - 1.05
NF, rectified, 80-85%, dms. ....lb. .68 - 1.20
Eugenol, USP, dms.....lb. 1.60 - 2.25
Euphorbia herb, bls. .....lb. .15 - .17

F

F acid, crude, paste, bbls., works. lb. 2.10 - —
Feldspar, 140-200 mesh, bulk, c.l., works..ton.19.50 - —
Feldspar in bags $3 per ton. higher.
Fennel oil, sweet USP, cns. .....lb. 2.75 - 2.95
Fennel seed, Argentine, bgs.....lb. .14 - —
French, light, bgs.....lb. .21 - —
Indian, light, bgs.....lb. .25 - —
Rumanian, bgs. .....lb. .14 - —
Yugoslav, light, bgs.....lb. .22 - —
Fenugreek seed, Moroccan, bgs lb. .07½- —
Ferric acetate, soln., USP IX, cbys. lb. .16 - —
USP IX, cbys. .....lb. .17 - —
Ferric chloride, anhyd., tech., dms., c.l., works..100 lbs. 7.50 - —
dms. l.c.l., works.....100 lbs. 8.50 - —
Indust., cryst., bulk, c.l., works. 100 lbs. 5.25 - 6.75
bbls., l.c.l., works.....100 lbs. 5.75 - 7.25
42° Be., photo grade, cbys., c.l., works..100 lbs. 7.25 - 9.25
sewage grade, tanks, frt. equald. 100% basis..100 lbs. 6.00 - —
USP, cryst., dms., works.....lb. .07½- .09

At The Glidden Company...



At The Glidden Company, paint drippings from a pebble and steel ball mill are easily cleaned off the Epon resin-based exterior surface coating with a solvent-dipped rag.

Chemical-resistant Epon® resin-based coatings guard paint production equipment from corrosion ...greatly reduce maintenance costs

At one of the paint production plants of The Glidden Company, enamel coatings on equipment were often stripped down to bare metal in only 30 days by the corrosive action of caustic cleaners. Maintenance costs were high.

To reduce costs for general housekeeping and repainting, the grinding mills, storage tanks, structural steel, and concrete areas were coated with Glidden's own Epon resin-based paint, Nu-Pon Cote.

Even though the Epon resin-based coatings are constantly exposed to hot caustic soda solutions, solvents, paint splashes, and abrasion, a fast washing down with solutions of petroleum and ester solvents keeps them clean and bright. Equipment is completely free from corrosion. *The Epon resin-based coatings have already lasted 4 times longer than the previous enamels.*

Most paint users are already aware of the many advantages offered by Epon resin formulations . . . excellent adhesion, resistance to abrasion, impact, heat, and humidity extremes.

Your Shell Chemical representative will explain how you can take full advantage of Epon resins in your paint and enamel formulations. Write for EPON RESIN ESTERS FOR SURFACE COATINGS.

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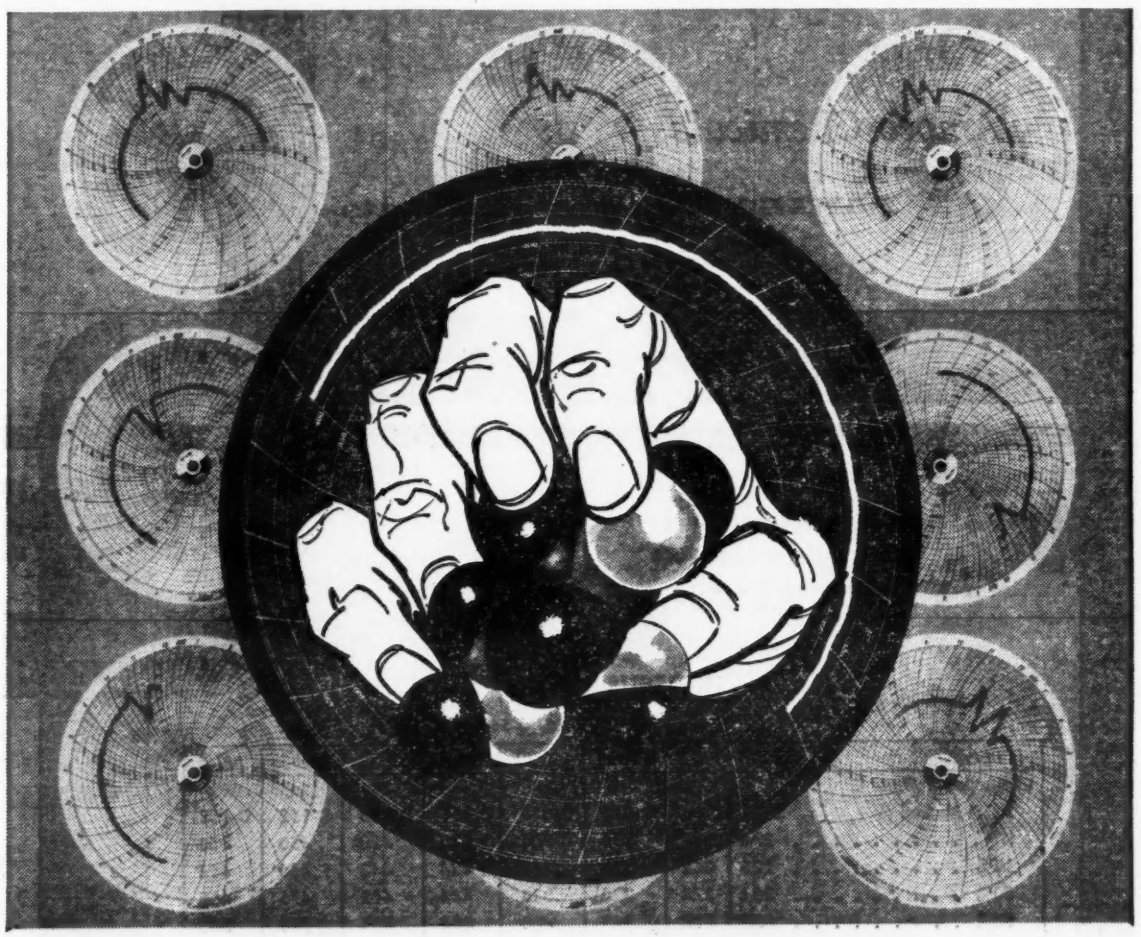
IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited, Montreal • Toronto • Vancouver

Ferric citrate, gran., dms. ..... lb. .86 - —
Ferric hypophosphite, NF, dms. lb. 3.45 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld lb. .28½- —
Ferric oxalate, gran., dms. ..... lb. .89 - .91
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble gran. pearls, cs lb. .72 - .75
Ferric pyrophosphate, NF VII, soluble, gran., pearls, dms. lb. .79 - —
Ferric resinate, 6¾% Fe., dms., ton lots, frt. alld lb. .36½- —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld. ..... lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l. works ton 35.25 - —
bgs., l.c.l., works ..... ton 36.25 -42.25
bulk, c.l., works ..... ton 33.25 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .65 - .68
Green, pearls, USP XII, gran., dms lb. .66 - .69
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, dms. ... lb. .95 - —
Ferrous sulfate, gran., bgs., c.l., works ton 34.50 - —
bgs., l.c.l., dlvd. Metropolitan area, 100 lbs. 3.35 - 4.25
Ferrous sulfate, gran., bbls., c.l., works ..ton 40.00 - —
bulk, c.l., works ..... ton 27.00 - —
USP, cryst., bbls., dms. ..... lb. .09½- .10
Fir balsam, Canada, bbls. ..... gal. 32.00 -35.00
Oregon, bbls. ..... gal. 3.75 - 4.00
Fir oil, Canada, cns. ..... lb. 2.85 - 4.00
Fish oil, refd., alkali, dms. ..... lb. .1350- .1400
Kettle-bodied, dms. ... . lb. .1580- .1630
Light-pressed, dms. ..... lb. .1200- .1250
tanks ..... lb. .1050- —
Fishliver oil, high potency, 100,000 A units per gram, dms. 1,000,000 units. .16 - —
200,000 A units per gram., dms. 1,000,000 units. .17½- —
500,000 A units per gram., dms., 1,000,000 units. .18 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic coast ..ton 158.00 -160.00
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic coast ..ton 154.00 -156.00
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo or more ..gram. .44 - —
10% feed grade, fib. dms., 3 kilos or more ..kilo. 44.00 - —
Formaldehyde, 37%, (inhibited 7 to 8% methanol), USP, dms., c.l., dlvd lb. .0545- —
tanks, dlvd. ..... lb. .0380- —
Formaldehyde, 37%, (inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd lb. .0670- —
tanks, dlvd. ..... lb. .0405- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd ..lb. .0350- —
Formic acid, 85%, cbys., c.l., works. lb. .1570- —
cbys., l.c.l., works ..... lb. .1620- .1720
90%, cbys., c.l., works ..... lb. .1625- —
cbys., l.c.l., works ..... lb. .1675- .1775
Fringetree bark, bls. ..... lb. .60 - .61
Fuller's earth, bgs., c.l., Ill. mines, ton. 19.00 - —
Calcined, bgs., c.l., same basis. ton. 20.00 -21.75
Insecticide grade, dried, powd., bgs., c.l., Ga. or Fla. mines ton. 17.50 - —
Oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton. 16.30 -17.00
200-mesh, bgs., c.l., same basis. ton. 17.50 -18.00
Spent, bgs., c.l., ship't. point ton. 4.50 - 5.00
Fumaric acid, tech., bgs., dms., c.l., frt. alld. E ..lb. .27¼- —
bgs., l.c.l., same basis ..... lb. .28¼- —
Prices of fumaric acid 1½c. per lb. higher west of Denver.
Furfural, dms., c.l., works ..... lb. .13 - —
dms., l.c.l., works ..... lb. .14 - —
tanks, dlvd. E. ..... lb. .12 - —
tanks, dlvd. W. ..... lb. .13 - —
Furfuryl alcohol, cns., works ..... lb. .29 - —
dms., l.c.l., Memphis, Tenn. .. lb. .21 - —
tanks, Memphis, Tenn. ..... lb. .184 - —
Furfuryl alcohol, dms., c.l., Newark, N. J. lb. .21½- —
dms., l.c.l., Newark, N. J. ..... lb. .22½- —
Fusel oil, refd., dms., c.l., dlvd lb. .18 - —
dms., l.c.l., dlvd. ..... lb. .19 - —
tanks, dlvd. ..... lb. .15½- —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., l.c.l. ..... lb. .45½- —
No. 3, bbls., l.c.l. ..... lb. .43½- —
Liq., No. 1, bbls., l.c.l. ..... lb. .22½- —
No. 2, bbls., l.c.l. ..... lb. .21½- —
No. 3, bbls., l.c.l. ..... lb. .19 - —
Solid, No. 1, bxs., l.c.l. ..... lb. .45 - —

G

G salt, bbls., frt. alld., 100% basis lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb. 2.06 - —
bbls., smaller lots ..... lb. 2.02 - 2.22
Gallic acid, tech., bbls., 1,000-lb. lots. lb. 1.78 - —
bbls., smaller lots ..... lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld. lb. 1.50 - —
Paste, bbls., frt. alld. ..... lb. 1.45 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. ..... oz. 4.75 - 6.05
Imp., bots. ..... oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, pure pork skin),
75 AOAC test, bbls., c.l ..... lb. .54 - —
150 AOAC test, bbls., c.l ..... lb. .65 - —
200 AOAC test, bbls., c.l ..... lb. .71 - —
225 AOAC test, bbls., c.l ..... lb. .74 - —
275 AOAC test, bbls., c.l ..... lb. .83 - —
Gelsemium root, bls. ..... lb. .26 - —
Gentian root, bls. ..... lb. .23 - —
Grd., bbls., bxs. ..... lb. .27 - —
Powd., bbls., bxs. ..... lb. .26 - —
Geraniol, extra, cns., dms. ..... lb. 1.90 - 3.00
Standard, cns., dms. ..... lb. 2.05 - 3.40
soap grade, dms ..... lb. 1.10 - 1.75
Geranium oil, Algerian, cns. ..... lb. 16.50 -18.50
Bourbon, cns. ..... lb. 18.00 -22.75
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. ..... lb. 2.00 - 2.70
Ginger oil, dist., bots. ..... lb. 10.50 -14.00
Ginger oleoresin, NF, from African root, bots. lb. 5.00 - 5.60
NF, from Jamaican root, botts. lb. 8.75 -10.25
Ginger root, Cochin, bgs. ..... lb. .14 - —
Jamaican, No. 3, bgs. ..... lb. .45 - —
Nigerian, split, bgs. ..... lb. .13 - —
Sierra Leone, bgs. ..... lb. .15 - —

Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50%, dms., frt. alld lb. .16 - —
dms. l.c.l., frt. alld. ..... lb. .29½- —
tanks, frt. alld. ..... lb. .13½- —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs. c.l., dlvd. lb. .15 - —
131 jellygrams, bgs., c.l., same basis lb. .17 - —
164 jellygrams, bgs., c.l., same basis lb. .17½- —
191 jellygrams, bgs., c.l., same basis lb. .19 - —
222 jellygrams, bgs., c.l., same basis lb. .22 - —
Glue, bone, green, dry bone, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
65 jellygrams, bgs., c.l., same basis lb. .16 - —
86 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 1c higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .16 - —
95-121, bgs., c.l., dlvd ..... lb. .17 - —
122-149, bgs., c.l., dlvd ..... lb. .18½- —
150-177, bgs., c.l., dlvd ..... lb. .21 - —
178-206, bgs., c.l., dlvd ..... lb. .23½- —
Glue, hide, 207-236 jellygrams, bgs., c.l., dlvd. lb. .26 - —
237-266, bgs., c.l., dlvd ..... lb. .28 - —
267-298, bgs., c.l., dlvd ..... lb. .30 - —
299-330, bgs., c.l., dlvd ..... lb. .32 - —
331-362, bgs., c.l., dlvd ..... lb. .34 - —
363-394, bgs., c.l., dlvd ..... lb. .36 - —
395-427, bgs., c.l., dlvd ..... lb. .38 - —
428-460, bgs., c.l., dlvd ..... lb. .40 - —
461-494, bgs., c.l., dlvd ..... lb. .42 - —
495-529, bgs., c.l., dlvd ..... lb. .44 - —
Hide glue, l.c.l., prices 2c higher.
1-Glutamic acid, 99½%, fib. dms., 100-lb lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.85 - —
1-Glutamine, bots., 1-9 kilo lots, gram. .15 - —
Glycerine, dom., nat., crude, saponification, 88%, dlvd. E., tanks lb. .18¾ Nom.
nat., crude, soaplye, 80%, dlvd. E., tanks lb. .17½ Nom.
Imp., nat., crude, soaplye, 80%, c.l.f lb. .17 Nom.
Glycerine, nat., refd., USP, CP, 99%, dms., c.l., dlvd lb. .29¾- —
dms., l.c.l., dlvd ..... lb. .29⅞- —
tanks, dlvd. ..... lb. .27½- —
USP, 96%, dms., c.l., dlvd lb. .28½- —
dms., l.c.l., dlvd ..... lb. .29 - —
tanks, dlvd. ..... lb. .26¾- —
Nat., high gravity, dms., c.l., dlvd lb. .29¼- —
dms., l.c.l., dlvd. ..... lb. .29¾- —
tanks, dlvd. ..... lb. .27½- —
Glycerine, syn., dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd. ..... lb. .30 - —
tanks, dlvd. ..... lb. .27¾- —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l., works ..... lb. .21¼- —
tanks, works ..... lb. .18 - —
Golden seal root, NF, tested, bls lb. 3.75 - —
Grapefruit oil, dms ..... lb. 2.10 - 2.75
Graphite, amorp, powd., bgs., fib. dms., ex whse lb. .06 - .09½
cryst., 88-90%, powd., bgs., fib. dms. ex whse lb. .19 - .21⅛
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31⅛
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Flake, No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, dlvd lb. .08⅛- .08¼
Yellow, tanks, dlvd. ..... lb. .07⅛- .07⅛
Grease oil, No. 1, dms., c.l. ..... lb. .15¾- —
dms., l.c.l., ... lb. .16¾- .18¼
extra winter, strained, dms., c.l. lb. .18¼- —
dms., l.c.l. ..... lb. .19¼- .21⅛
prime, burning, dms., c.l. .... lb. .19¾- —
dms., l.c.l. ..... lb. .20¾- .22¼



A structure that simplifies cooking

Glycerine has a molecule with three OH combining points for making alkyd resins—two primary, one secondary. In the polymerization reaction, it permits more flexibility, promotes a more uniform structure and reduces the danger of gellation.

Glycerine has other important advantages in making alkyds:

- Its liquid state simplifies handling; permits measurement by volume or weight.
- Its compatability with fatty acids and copolymers makes a wide range of resin properties economically feasible.
- Its chemistry has been thoroughly evaluated. Methods are perfected and literature abundant.

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Properties
HYGROSCOPICITY • STABILITY
SOLVENT POWER • VISCOSITY
NONVOLATILITY • NONTOXICITY
TASTE • COMBINING WEIGHT

ADVANTAGES THAT COME WITH . . .
Glycerine

Applications
HUMECTANT • CARRIER
SOLVENT • LUBRICANT
SOFTENER • EMOLLIENT
ANTI-FREEZE • ALKYD BASE

GLYCERINE PRODUCERS' ASSOCIATION • 295 MADISON AVENUE, NEW YORK 17, N. Y.

Grindelia Robusta Herb—Iron Blue

Green Pigments

Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls. lb. .45 - —
Guaiacol, NF, cryst. dms., tins lb. 2.10 - 2.15
NF liq. cbys., dms. lb. 2.30 - 2.40
Guaiacol carbonate, NF, VII, dms. lb. 3.40 - 3.45
Guaiacwood oil, cns lb. .75 - 1.30
Guar gum, food grade, bgs., c.l. lb. .38 - .44
bgs., 5,000 lbs. or more lb. .39 - .44
Tech. grade, bgs. lb. .30 - .33

Gums

Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

Gypsum, plaster of Paris, 100-lb. paper bgs., trucks, dlvd. New York ton.20.30 - —
Gypsum, terra alba, dom., 100-lb. paper bgs., trucks, same basis ton.20.00 - —
100-lb. paper bgs., trucks, works, New York ton.17.00 - —
Imp., English, 100-lb. paper bgs., ex dock, New York ton.55.00 - —
100-lb paper bgs., ex whse. ton.60.00 -62.00

H

H acid, dry, bbls., c.l., frt. alld., 100% basis lb. .90 - —
bbls., l.c.l., same basis lb. .95 - —
Hansa yellow, 10 G, bbls., dlvd. E. of Rockies lb. 2.45 - —
Hansa G yellow, pigment, bbls lb. 2.20 - —
Hawthorn berries, bgs. lb. .21 - —
Heliotropin, 100-lb. lots, dms. lb. 2.50 - 3.00
Hellebore root, dom., green, bls lb. .70 - .75
Helonias root, bls. lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls., l.c.l. lb. .37 - —
Paste, No. 1, bbls., l.c.l. lb. .20½- —
Hemlock oil, cns. lb. 2.85 - 3.53
Henbane leaves, bls. lb. .35 - .40
Heptachlor, dms., c.l., t.l., 100% basis, frt. alld. lb. .90 - —
Heptane, indust., tanks, Bayonne, N. J. gal. .20 - —
tanks, Baytown, Tex. gal. .16¼- —
tanks, Borger, Tex. gal. .16¼- —
tanks, Houston, Tex. gal. .16¼- —
Hesperidin, purif., 100-lb. fib. dms., f.o.b., works lb. 8.93 - —
Hesperidin methylchalcone, bots., 50-lb. lots, works lb.22.50 - —
bots., 5-lb. lots, works lb.23.00 - —
bots., 1-lb. lots, works lb.23.50 - —
Hexachlorophene, dms. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or New York lb. .233 - —
Hexamethylenetetramine, tech., bgs., 1,000-19,999-lb. lots, same basis. lb. .243 - —
bgs., smaller lots, same basis.lb. .253 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .250 - —
Hexamethylenetetramine, tech., fib., dms., smaller lots, same basis lb. .253 - —
USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48½
Hexane, indust., tanks, Bayonne, N. J. gal. .20 - —
tanks, Borger, Tex., dlvd gal. .16 - —
tanks, Houston, Tex. gal. .16 - —
1-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
n-Hexyl methacrylate, dms., c.l., works lb. .75½- —
dms., l.c.l., works lb. .76 - —
Hexyl salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17½- —
dms., l.c.l., dlvd. lb. .18½- —
tanks, dlvd. lb. .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more, dlvd lb.14.00 - —
dms., smaller lots, dlvd. lb.14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.00 - —
Homatropine methylbromide, USP, bots. oz. 3.90 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.75 - —
Horehound herb, bls. lb. .16 - .19
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 - 1.55
100%, ret. dms., works lb. 1.60 - 1.90
Hydriodic acid, 1.50 s.g., cbys. lb. 2.92 - —
1.70 s.g. cbys. lb. 3.23 - —
Hydroabietyl alcohol, tech., solid, dms., c.l., dlvd. zone 1 lb. .29¼- —
dms., l.c.l., dlvd. zone 1 lb. .29¾- .30¼
tanks, dlvd. zone 1 lb. .27¼- —

Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.

Hydrobromic acid, medicinal, 48%, cbys., dlvd. E lb. .37 - .43
Hydrochloric acid, anhyd. (see Hydrogen chloride)
Hydrochloric acid, 18°, cbys., c.l., works 100 lbs. 2.90 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton.28.00 - —
Hydrochloric acid, 20°, cbys., c.l., works 100 lbs. 2.75 - —
cbys., l.c.l., dlvd. Metropolitan area 100-lbs. 3.15 - —
tanks, works frt. equald ton.30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 3.65 - —
tanks, works frt. equald ton.35.00 - —
Hydrochloric acid, CP, USP, consumers cbys. extra c.l. works lb. .15¾- —
cbys., l.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 5-pint bots., extra cs., c.l., same basis lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. 2.25 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 2.25 - —
Hydrocyanic acid, dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. dms., c.l., t.l., dlvd. 100 lbs.19.25 - —
55-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs.20.75 - —
30-gal. dms., c.l., t.l., dlvd. 100 lbs.21.00 - —
30-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs.22.50 - —
tanks, works, frt. equald. 100 lbs.15.50 - —

Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.

Hydrofluosilicic acid, dms., works, 30% basis lb. .06 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
50-lb. cyls., l.c.l., works lb. .55 - .60
Hydrogen chloride, anhyd., 50-lb. cyls., l.c.l., works lb. .45 - —
Hydrogen cyanide, liq., 98%, tanks, works lb. .16 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32¼
cyls. dlvd. W. lb. .39 - —
tanks, works lb. .21 - —
Hydrogen peroxide, USP, bbls. dlvd. lb. .03¾- .05
35%, dms., c.l., dlvd. lb. .202 - —
dms., l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone, photo grade, dms.lb. 1.10 - 1.13
Tech., dms., c.l., dlvd. lb. .82½- —
dms., l.c.l., dlvd. lb. .84½- —
Hydroxyacetic acid, tech., 70%, dms., Philadelphia and Chicago lb. .11 - —
tanks, Belle, W. Va. lb. .073 - —
Hydroxycitronellal, cns. lb. 4.00 - 4.80
Hydroxyethyl cellulose, low viscosity grades, 20,000-lb. lots or more, f.o.b. shipping point lb. 1.00 - —
2,000 to 19,999-lb. lots, same basis lb. 1.05 - —
150 to 1,999-lb. lots, same basis. lb. 1.07 - —
Less than 150-lb. lots, same basis lb. 1.17 - —
Hydroxyethyl cellulose, high viscosity grades, 20,000-lb. lots or more, more, f.o.b. shipping point lb. 1.10 - —
2,000 to 19,999-lb. lots, same basis lb. 1.15 - —
Hydroxyethyl cellulose, 85 to 1,999-lb. lots, same basis lb. 1.17 - —
Less than 85-lb. lots, same basis. lb. 1.27 - —
Hyoscine salts (see Scopolamine)
Hyoscyamine hydrobromide, bots.oz. 6.00 - 7.00
Hyoscyamine sulfate, bots. oz. 6.00 - 6.50
Hypernic extract, cryst. No. 1 bbls., l.c.l. lb. .52 - —
Liq. No. 1 bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —
Hypophosphorus acid, purif. 50% cbys., ton lots, f.o.b. works lb. .85 - —
NF, 30%, cbys., all quantities, same basis lb. .75 - —

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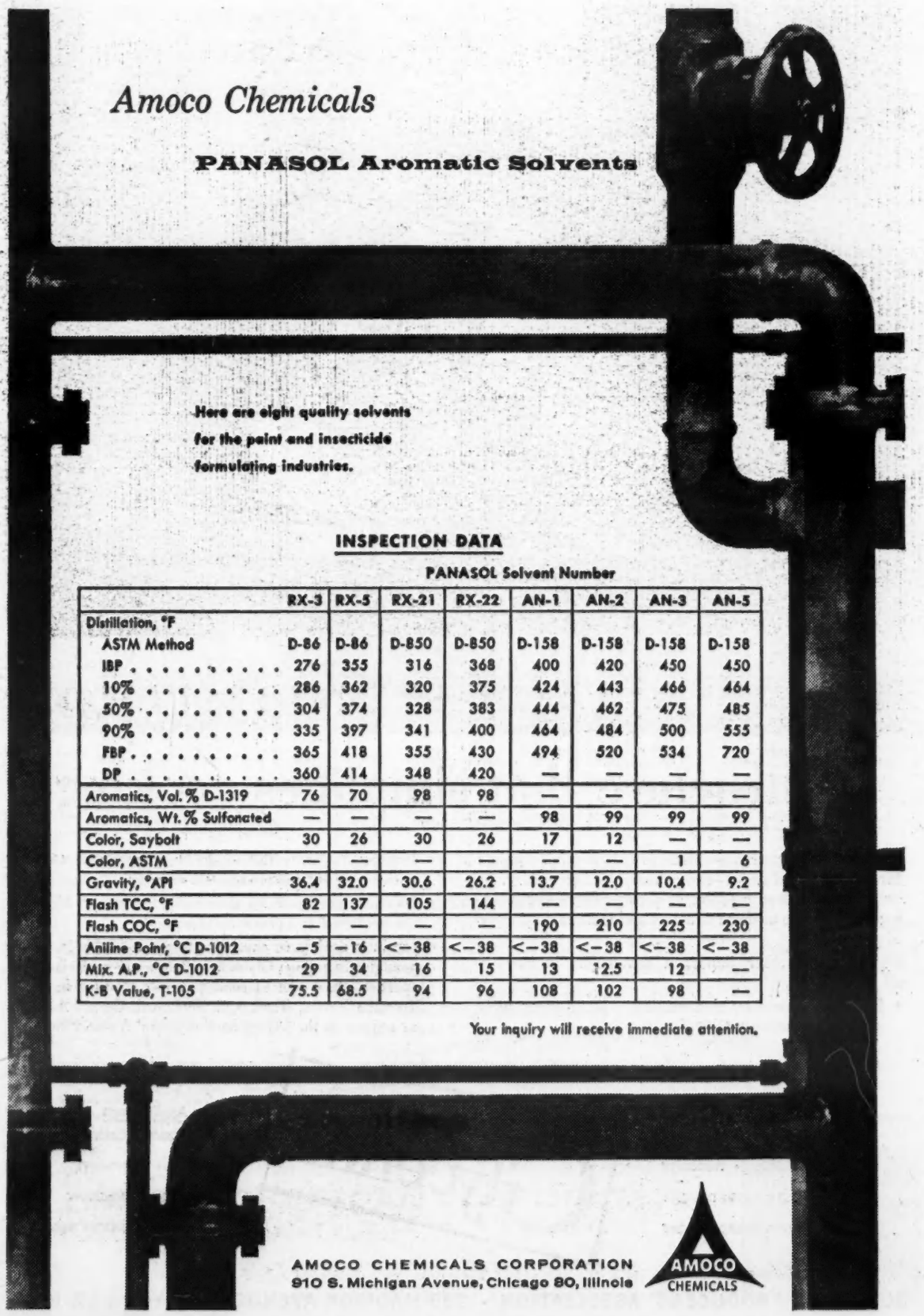
Ichthammol, NF, dms. lb. .75 - 1.05
Indigo (see Dyes coaltar, 1171 indigo, syn).
Indole, CP, bots lb.15.75 -16.25
Inositol, bots., dlvd. lb. 5.00 - —
dms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs. lb. .95 - —
Resub., USP, dms lb. 2.00 - 2.02
Iodochlorohydroquinolin, USP, dms. lb. 3.60 - —
Iodoform, NF, dms., kgs. lb. 4.90 - 5.00
a-Ionone, cns. lb. 3.75 - 4.15
b-Ionone, cns. lb. 4.20 - 4.90
Ipecac root, whole, bgs. lb. 8.75 - 9.25
Powd., bbls., bxs. lb. 9.50 -10.00
Irish moss, bleached, prime, bls lb. .28 - .34
Iron blue, alkali-resisting, bbls., c.l., dlvd. E lb. .57 - —
bbls., l.c.l., ton lots, same basis. lb. .58 - —
bbls., smaller lots, same basis.lb. .59 - —



INSPECTION DATA

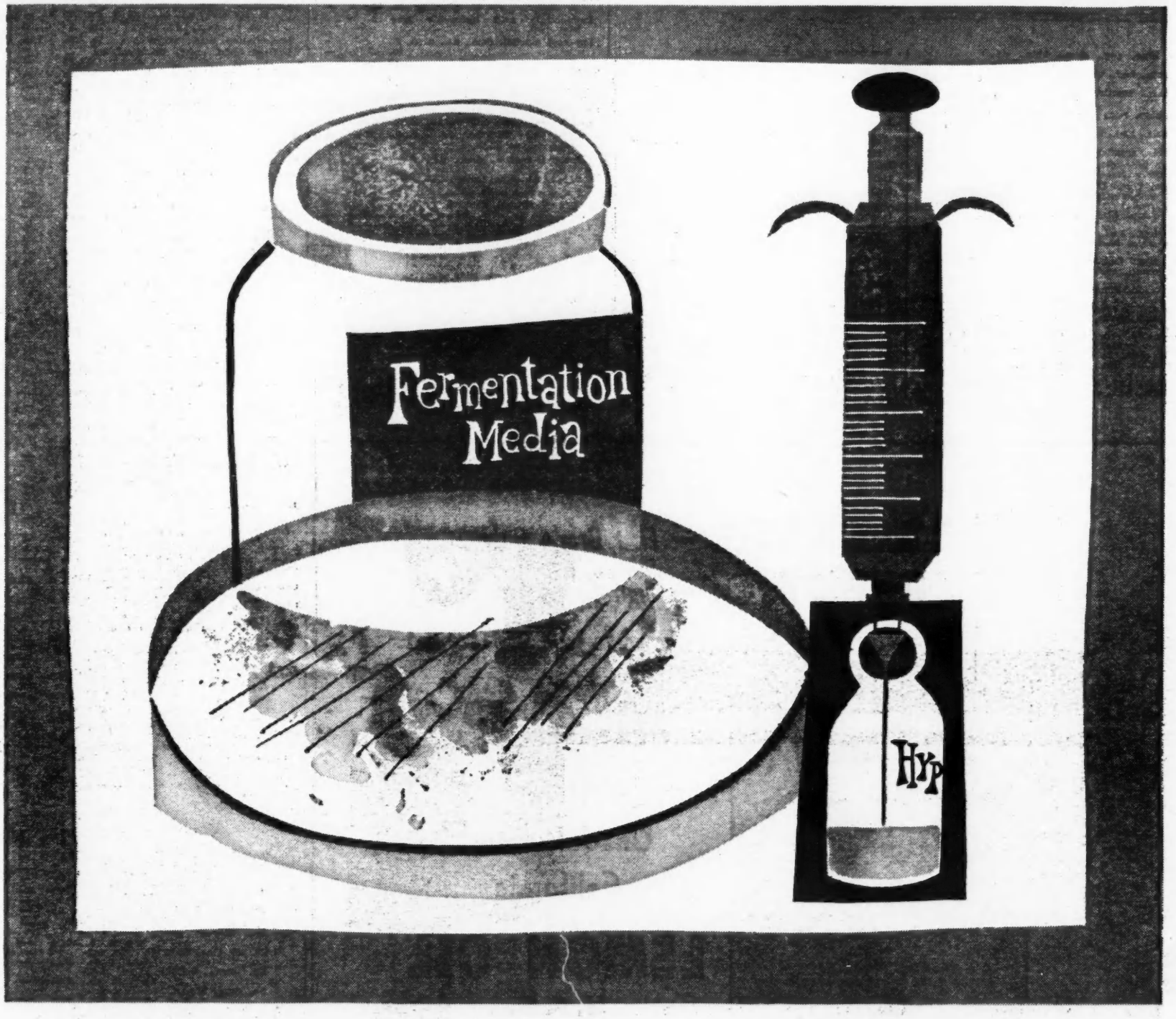
PANASOL Solvent Number

	RX-3	RX-5	RX-21	RX-22	AN-1	AN-2	AN-3	AN-5
Distillation, °F								
ASTM Method	D-86	D-86	D-850	D-850	D-158	D-158	D-158	D-158
IBP	276	355	316	368	400	420	450	450
10%	286	362	320	375	424	443	466	464
50%	304	374	328	383	444	462	475	485
90%	335	397	341	400	464	484	500	555
FBP	365	418	355	430	494	520	534	720
DP	360	414	348	420	—	—	—	—
Aromatics, Vol. % D-1319	76	70	98	98	—	—	—	—
Aromatics, Wt. % Sulfonated	—	—	—	—	98	99	99	99
Color, Saybolt	30	26	30	26	17	12	—	—
Color, ASTM	—	—	—	—	—	—	1	6
Gravity, °API	36.4	32.0	30.6	26.2	13.7	12.0	10.4	9.2
Flash TCC, °F	82	137	105	144	—	—	—	—
Flash COC, °F	—	—	—	—	190	210	225	230
Aniline Point, °C D-1012	−5	−16	<−38	<−38	<−38	<−38	<−38	<−38
Mix. A.P., °C D-1012	29	34	16	15	13	12.5	12	—
K-B Value, T-105	75.5	68.5	94	96	108	102	98	—

Your inquiry will receive immediate attention.

AMOCO CHEMICALS CORPORATION
910 S. Michigan Avenue, Chicago 80, Illinois

AMOCO CHEMICALS



LACTOSE: APPLICATIONS UNLIMITED

MILK SUGAR

LEADING drug and food manufacturers have discovered hundreds of uses for Lactose (milk sugar). Almost every day this versatile material demonstrates its product-improving potential in dramatic new applications.

REMARKABLE PROPERTIES OF LACTOSE

For example, Lactose serves as an excellent filler and excipient for hypodermics and compressed tablets. It is soluble, uniform and does not react with active medicinal ingredients. Lactose preserves microbial cultures in a high state of viability. Its slow fermentation creates a nutritional stress on molds, promoting maximum yields of penicillin and other antibiotics. And Lactose is a mild, almost tasteless triturate for patent drugs.

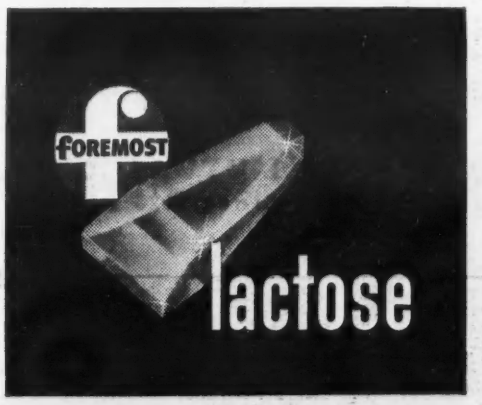
ONE FULL LINE SUPPLIER

Only Western offers you all forms of Lactose in unlimited supply...5 grades...10 basic granulations (custom granulations, too). Orders filled promptly from plant or warehouse nearest you.

UNIFORMLY HIGH QUALITY

The world's largest producer of Lactose, Western maintains rigid production control standards to assure unvarying high quality and purity. Exclusive Western techniques and equipment provide maximum particle uniformity...superior results for you as a user of Lactose.

Find out how Lactose from Western can help improve your products. Write Technical Service, Department 21 M telling us the application you are considering.



WESTERN CONDENSING COMPANY

Appleton, Wisconsin

WORLD-WIDE SUPPLIER OF HIGH-QUALITY MILK DERIVATIVES

Distributed nationally by **Chemical Department, McKESSON & ROBBINS, INC.**

Iron Blue—Lead Naphthanate

Iron blue, reg., dom., bbls., c.l., dlvd. E	lb.	.52	—
bbls., l.c.l., ton lots, same basis.	lb.	.53	—
bbls., smaller lots, same basis.	lb.	.54	—
Iron blue, reg., imp., British, bbls., c.l., dlvd. E	lb.	.48	—
bbls., l.c.l., ton lots, same basis.	lb.	.49	—
bbls., smaller lots, same basis.	lb.	.50	—

Iron blue dlvd. prices 1c. higher for Pacific Coast states:—Wash., Ore., Cal., N. M., Ariz., Mon., Wyo., Utah, Col. and Nev.

Iron compounds (see Ferric or Ferrous)

Iron oxide, black, pure, bgs., c.l., works	lb.	.14¾	—
bgs., l.c.l., works	lb.	.15	—
Iron oxide, brown, pure, bgs., c.l., works	lb.	.14¼	—
bgs., l.c.l., works	lb.	.14½	—
Iron oxide, metallic, brown, bgs., works	lb.	.05¼	—
Iron oxide, Persian Gulf, red, bgs., c.l., works	lb.	.08¾	—
Iron oxide, red, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y	lb.	.14¼	—
Iron oxide, red, nat., 75-85% ferric oxide, bgs., c.l., works	lb.	.06¼	—
bgs., l.c.l., works	lb.	.06½	—
Iron oxide, Spanish red, bbls., c.l., ex dock	lb.	.05¾	Nom.
bbls., l.c.l., ex dock	lb.	.06	Nom.
bbls., l.c.l., ex whse. New York.	lb.	.06½	Nom.
Iron oxide, yellow, nat., French type, bgs., c.l., works	lb.	.06¼	—
Peruvian type, bgs., l.c.l	lb.	.023	.024
Iron oxide, yellow, pure, light lemon shade, bgs., c.l., works	lb.	.12¼	—
Other shades, same basis	lb.	.12	—
Isoamyl alcohol, dms., c.l., works, frt. alld. E	lb.	.27½	—
dms., l.c.l., same basis	lb.	.28½	—
tanks, same basis	lb.	.25	—
Isoborneol, cns.	lb.	1.44	1.80
Isobornyl acetate, cns.	lb.	.48	.56
Isobornyl formate, dms.	lb.	1.20	—
Isobornyl proprionate, dms.	lb.	1.25	1.35
Isobutyl acetate, perfume grade, cns	lb.	.75	1.00
Solvent grade, dms., c.l., dlvd. E. of Rockies	lb.	.15¼	—
dms., l.c.l., same basis	lb.	.16¼	—
tanks, same basis	lb.	.12¾	—
Isobutyl alcohol, dms., c.l., dlvd.	lb.	.16	—
dms., l.c.l., dlvd.	lb.	.17	—
tanks, dlvd.	lb.	.13½	—
Isobutyraldehyde, CP, dms., c.l., dlvd	lb.	.27½	—
dms., l.c.l., dlvd.	lb.	.28½	—
Isobutyraldehyde, tech., dms., c.l., dlvd	lb.	.21½	—
dms., l.c.l., dlvd.	lb.	.22½	—
tanks, dlvd.	lb.	.19½	—
Isoeugenol, cns.	lb.	3.55	3.75
Isoniazid, powd., kilo or more	kilo.	16.00	—
Isonicotinic acid, 100-lb. fib dms., works	lb.	4.25	—

Isonicotinic acid hydrazide (see Isoniazid).

Iso-octyl alcohol, dms., c.l., dlvd. E.	lb.	.23½	—
dms., l.c.l., dlvd. E.	lb.	.24½	—
tanks, dlvd. E.	lb.	.21	—
Isopentane, coml. grade, tanks, f.o.b. Tex. refy.	gal.	.15½	—

Isopropanol (see Isopropyl alcohol).

Isophorone, dms., c.l., works	lb.	.24½	—
dms., l.c.l., works	lb.	.25¼	—
tanks, works.	lb.	.22½	—
Isopropyl acetate, dms., c.l., dlvd.	lb.	.14	—
dms., l.c.l., same basis	lb.	.15	—
tanks, same basis	lb.	.11½	—
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd	gal.	.58	—
dms., l.c.l., dlvd.	gal.	.65	—
tanks, dlvd.	lb.	.42	—
95%, c.l., dms., dlvd.	gal.	.60	—
dms., l.c.l., dlvd	gal.	.67	—
tanks, dlvd.	gal.	.44	—
99%, dms., c.l., dlvd.	gal.	.62	—
dms., l.c.l., dlvd	gal.	.69	—
tanks, dlvd.	gal.	.46	—

Isopropyl benzene (see Cumene).

Isopropyl ether, dms., c.l., dlvd	lb.	.09½	—
dms., l.c.l., dlvd.	lb.	.10½	—
tanks, dlvd.	lb.	.07	—
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC), tech., dms., c.l., t.l., works	lb.	1.00	—
dms., l.c.l., works	lb.	1.05	1.25
tanks, works.	lb.	.99	—
Isopropylamine (see Mono, Di, or Tri-).			
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works	lb.	.75	—
450-lb. fib. dms., l.c.l., works	lb.	.80	.90
Isoquinoline, dms., works	lb.	.65	1.25
Itaconic acid, purif. fib. dms., c.l. works	lb.	.54	—
fib. dms. l.c.l., works	lb.	.55	—
Tech. fib. dms., c.l., works	lb.	.39	—
fib. dms., l.c.l., works	lb.	.40	—

J

J acid, paste, bbls., works, 100% basis	lb.	2.45	—
Powd., bbls., same basis	lb.	2.50	2.85
Jalap root, NF, bls.	lb.	.85	—
powd., bbls. bxs.	lb.	1.00	—
Japan wax, cs	lb.	.28	.30
Juniper berries, bgs.	lb.	.15	—
Juniper berry oil, bots.	lb	2.90	3.75
Twice rectified bots.	lb	3.60	7.00
Juniper tar oil, NF dms	lb.	.42	.60
Juniper wood oil, tech. cns.	lb.	.38	.55

K

Kaolin (see also Clay, China).			
Kaolin, NF, powd., fib. dms.	lb.	.10	.12
colloidal, 50-lb. bgs.	lb.	.15½	.17½
Karaya gum No. 1, NF, powd. bbls	lb.	.38	.43
No. 2, powd., bbls.	lb.	.32	.34
No. 3, powd., bbls.	lb.	.28	.30
Koch acid, bbls., frt. alld., 100% basis	lb.	1.00	—
Kola nuts, bgs.	lb.	.13	—

L

L acid, bbls., works	lb.	1.25	—
Lacquer diluent, petroleum, 150°-240° F b.r., tanks, west coast, ex tax, Los Angeles	gal.	.174	—
Lacquer diluent, petroleum, 150°-240° F. b.r., tanks, east coast, N. J., N. Y	gal.	.20	—
Lacquer diluent, benzene type, tanks, group 3	gal.	.1550	—
Toluene type, tanks, group 3	gal.	.14375	—
tanks, Houston, Tex.	gal.	.16	—
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald	lb.	.1789	.2740
bbls., dms., 20 or more, frt. equald	lb.	.1839	.2790
bbls., dms., 5 to 19 frt. equald.	lb.	.1889	.2840
bbls., dms., 1 to 4, frt. equald.	lb.	.1938	.2890
80%, c.l., bbls., dms., frt. equald	lb.	.3039	.4625
bbls., dms., 20 or more, frt. equald	lb.	.3089	.4675
bbls. dms 5 to 19 frt. equald.	lb.	.3139	.4725
bbls., dms., 1 to 4 frt. equald.	lb.	.3189	.4775
Plastic grade, 50%, c.l., bbls., works	lb.	.2740	—
bbls., 20 or more, works	lb.	.2790	—
bbls., 5 to 19, works	lb.	.2840	—
bbls., 1 to 4, works	lb.	.2890	—
80%, bbls., c.l., works	lb.	.4625	—
bbls., 5 to 19, works	lb.	.4725	—
bbls., 1 to 4, works	lb.	.4775	—
Tech., 22%, bbls., c.l., works.	100 lbs.	6.80	—
bbls., l.c.l., works	100 lbs.	7.20	—
44%, bbls., c.l., works	100 lbs.	11.45	12.70
bbls., l.c.l., works	100 lbs.	11.85	13.10
USP, 85%, cbys.	lb.	.85	—
Lactose, crystalline, edible, bgs., 23,000-lb. lots, frt. equald	lb.	.14	—
bgs., 6,000-lb. lots, frt. equald	lb.	.14½	—
bgs., 2,000-lb. lots, frt. equald	lb.	.14¾	—
bgs., 200-lb. lots, frt. equald	lb.	.15¼	—
Edible lactose in fib. dms., ½c. higher.			
Lactose, ferment. grade bgs., c.l., works	lb.	.08½	—
USP, fib. dms., 30,000-lb. lots, frt. equald	lb.	.21½	—
fib. dms., 2,000-lb. lots, frt. equald	lb.	.22¼	—
fib. dms., 200-1,800-lb. lots, frt. equald	lb.	.22¾	—
USP lactose in bags ½c. to 1c. lower.			
Lactose, USP, spray dried, bgs., t.l., frt. equald	lb.	.18½	—
bgs., l.t.l., frt. equald	lb.	.19	.19¾
Lady's slipper root, bls.	lb.	3.50	3.75
Lake C red toner, alizarine, bbls., works	lb.	1.25	—
Lamp black, bgs., c.l., works	lb.	.16	.45
Lanolin, cosmetic, dms., works	lb.	.27	.29
USP, anhyd., dms., works	lb.	.24	.26
hydrous, dms., works	lb.	.23	.25
Lard, cash, dms.	lb.	.10	—
Lard oil (see Grease oil).			
Larkspur seed, bgs.	lb.	.35	—
Laurel leaf oil, dms., cns.	lb.	9.75	12.50
Laurent's acid, bbls.	lb.	.60	—
Lauric acid, 90%, dms	lb.	.35½	.38
tanks	lb.	.33¼	—
Lauryl alcohol, bots.	lb.	2.00	2.50
n-Lauryl methacrylate, dms., c.l., t.l. works	lb.	.65½	—
dms., l.t.l., works	lb.	.66	—
Lavandin oil, 22-24%, dms.	lb.	1.25	2.00
Abrial, dms.	lb.	1.00	1.50
Lavender flowers, medium, bls.	lb.	.75	.80
Ord., bls.	lb.	.25	.40
Select., bls.	lb.	1.10	—
Lavender flower oil, USP, French, 35-37% ester, cns.	lb.	3.50	9.50
38-42% ester, cns.	lb.	5.00	10.00
Spike, Spanish, cns	lb.	2.40	2.85
Lead acetate, NF, cryst., gran., powd.	lb.	.34½	—
White, cryst., bbls.	lb.	.25½	—
gran., bbls.	lb.	.26½	—
powd., bbls.	lb.	.26½	—
Lead arsenate, acid powder, dealers, 3-lb. bgs. or larger, any quantity, frt. alld. on $100 or more	lb.	.26½	—
1-lb. bgs., same basis	lb.	.36½	—
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld.	lb.	.17	—
bbls., l.c.l., same basis	lb.	.18	—
Lead carbonate (see Lead, white, basic carbonate).			
Lead chloride, dms.	lb.	.53	—
Lead iodide NF V jars	lb.	3.62	—
Lead linoleate fused 26% Pb. dms.	lb.	.38	—
Lead metal, prime, pigs, New York.	lb.	.13	—
St. Louis	lb.	.1280	—
Lead monosilicate, bgs., c.l., works, frt. equald	lb.	.143	—
bgs., l.c.l., same basis	lb.	.153	—
Lead naphthenate, liq., 16% Pb, dms., dlvd	lb.	.19½	—
24% Pb, dms., dlvd.	lb.	.24¼	—
Solid, 37% Pb, dms., dlvd.	lb.	.31¾	—

ONE LABEL — *First Grade Only*

ONE PRICE — *That Saves You Money*

. . . and Perfect Performance for *Every* Purpose!

M. C. P.

Pure
Unadulterated
California

LEMON OIL
U.S.P.

An *Exclusively First Grade Lemon Oil* . . . Cold Pressed in California . . . and *Packed by the Producer* to Assure Highest Quality

For nearly 30 years, Mutual Citrus Products Co. has been cold-pressing California lemon oil for distribution by others. Now, M C.P. LEMON OIL is being *prepared and packed* under the M.C.P. label. There is only *one* label and *one* quality – *the highest* – for M.C.P. LEMON OIL. Yet, M.C.P. LEMON OIL costs you *less* . . . while providing a product that is unsurpassed for flavor, purity, and dependability . . . for *every* purpose.

Produced and Packed by

MUTUAL CITRUS PRODUCTS COMPANY
Since 1928 Growers and Processers of Citrus Products

Distributed by

MUTUAL CITRUS PRODUCTS CO.
424 South Atchison Street, Anaheim, Calif.

R. D. WEBB & CO., INC.
137 Boston Post Road, Cos Cob, Conn.

Lead nitrate, bbls. ..... lb. .24¼- .26¼
Lead orthosilicate-gel, 50-60% PbO_2, dms., works lb. .33¼- .34¼
Lead peroxide, tech. powd., bbls lb. .45 - .50
Lead phthalate, dibasic dms., works. lb. .61 - —
Lead, red, 95% Pb_3O_4 or less, bbls., c.l., works, frt. equald. lb. .15¼- —
bbls., l.c.l., same basis ... lb. .16¼- —
97% Pb_3O_4, bbls., c.l., same basis. lb. .1545- —
bbls., l.c.l., same basis ..... lb. .1645- —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1560- —
bbls., l.c.l., same basis ..... lb. .1660- —
Lead resinate, precip. 25% Pb, dms., ton lots, dlvd lb. .40¼- —
Lead salicylate, normal, dms., works, lb. .46 - —
Lead silicate (see Lead white basic silicate).
Lead, basic silico-chromate, bgs., c.l., f.o.b. mfg. point, frt. alld. lb. .19¾- —
bgs., l.c.l., same basis ..... lb. .20¾- —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate, liq., 16% Pb, dms. lb. .15 - —
24% Pb, dms. ..... lb. .18½- —
Solid, 30% Pb, dms. ..... lb. .23¼- —
Lead, white, basic carbonate, bgs., c.l., shipt. pt., frt. alld. lb. .17¾- —
bgs., l.c.l., same basis ..... lb. .18¾- —
Lead, white, basic silicate, bgs., c.l., shipt. pt., frt. alld. lb. .16¼- —
bgs., l.c.l., same basis ..... lb. .17¼- —
Lead, white, basic sulfate, bgs., c.l., shipt. pt., frt. alld. lb. .17 - —
bgs., l.c.l., same basis ..... lb. .18 - —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works. lb. .14 - .15
non-ret. dms., l.c.l., same basis lb. .15 - .16
unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
non-ret. dms., l.c.l., same basis lb. .14 - .15

Lemon bioflavonoid complex, fib. dms., 25-lb. lots, works lb. 9.00 - —
Lemon oil, USP, Calif., cns., dms lb. 3.15 - 4.00
Messina, cns. ..... lb. 4.50 - 9.50
Lemongrass oil, cns., dms. ..... lb. .90 - 1.15
dl-Leucine, dms., works ..... lb. 12.25 -15.00
Licorice root, gran., bls. ..... lb. .15 - .17
Powd., bls. ..... lb. .12 - .15
Whole, bls. ..... lb. .10 - .12
Lignaloe wood oil, Mexican, cns lb. 2.75 - 3.50
Lignosulfonate (see under ammonium or sodium lignin sulfonate).
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs., works, E. ton. 14.25 - —
Chemical, hydrated, bgs., c.l., same basis ton. 17.25 - —
Chemical, spray, bgs., c.l., same basis ton. 18.25 - —
For New York delivery, add $6.29 freight charge.
Lime oil, dist., Mexican, cns. .... lb. 6.50 - 6.80
West Indian, cns. ..... lb. 6.50 - 7.80
Expressed, West Indian, cns .. lb. 7.75 -13.70
Lime salts (see Calcium).
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool, ex bois de rose oil, dms. lb. 3.80 - 4.30
Syn., 96-100%, dms., works ... lb. 4.40 - —

Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 4.20 - 4.90
96-98%, dms. ..... lb. 4.75 - 5.60
Ex petitgrain, bots. ..... lb. 4.80 - 5.90
Syn., 98-100%, dms., works .... lb. 4.40 - —
Lindane, 25% formulation, to distributors, dms., frt. alld lb. 1.35 - 1.50
Lindane, tech., to formulators, dms., 1-2,000 lbs., dlvd lb. 2.40 - —
Linden flowers, with leaves, bls lb. .25 - —
Without leaves, bls. ..... lb. .30 - —
Linseed meal expeller, 32% bulk, Minneapolis, mills ton. Nominal
Extracted, 34% bulk, same basis. ton. 68.00 -70.00
Linseed oil, raw, dms., c.l., New York lb. .1630- —
dms., l.c.l., New York ..... lb. .1730- —
tanks, f.o.b. Minneapolis .... lb. .1280- —
tanks, New York ..... lb. .1430- —
tankwagon, New York ..... lb. .1480- .1490
Boiled linseed oil, .006c. per lb. higher.
Linseed oil acids, dist., dms. .... lb. .1930- —
Water-white, dms. ..... lb. .2230- —
Linseed pitch, dms. ..... lb. .06 - .06¼
Litharge, coml., powd., bbls., c.l., works, frt. equald. lb. .14¾- —
bbls., l.c.l., same basis .... lb. .15¾- —
Lithium benzoate, dms. ..... lb. 1.63 - 1.67
Lithium bromide, NF, gran., works, frt. equald. lb. 2.60 - —
Lithium carbonate, NF, dms., c.l., t.l., dlvd. lb. 1.29¼- —
dms., ton lots to t.l., dlvd. lb. 1.30 - 1.30½
Tech., dms., c.l., t.l., frt. alld. lb. .67 - —
dms., ton lots, same basis .... lb. .73 - —
Lithium carbonate, tech., dms., smaller lots, same basis. lb. .79 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd. or works, frt. alld. lb. .87 - —
dms., l.c.l., same basis .... lb. .88 - .92
Lithium citrate, NF, dms., ton lots. lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 2.13 - —
bbls., ton lots and more, dlvd. lb. 2.16¼- —
bbls., less ton lots, dlvd. ..... lb. 2.23½- —
Lithium hydride, powd., dms., 500-lb. lots or more, works lb. 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld. lb. .72 - —
dms., l.c.l., frt. alld. ..... lb. .73 - —
Lithium manganite, dms., works lb. .95 - 1.05
Lithium nitrate, tech., dms., 100-lb. lots lb. 1.13 - 1.25
Lithium salicylate, dms. ..... lb. 1.60 - 1.70
Lithium silicate, dms., works ... lb. 1.10 - 1.20
Lithium stearate, dms., c.l., works, lb. .47½- —
dms., ton lots, works ..... lb. .48½- —
dms., less-ton lots, works ..... lb. .53½- —
Lithium sulfate, dms., 100-lb. lots. lb. 1.13 - 1.25
Lithium titanate, dms., works .... lb. 1.16 - 1.25
Lithol red toner, barium, bbls., works lb. .98 - —
Lithol-rubine red toner, pure bbls., works lb. 1.30 - —
Resinated, bbls., works ..... lb. 1.47 - —
Lithopone, ord., bgs., c.l., dlvd, E. lb. .08½- —
bgs., l.c.l., dlvd. E. ..... lb. .09½- —
Lithopone, titanated (high-strength), bgs., c.l., dlvd. lb. .11 - —
bgs., l.c.l., dlvd. ..... lb. .12 - —
Lobelia herb, bls. ..... lb. .45 - —
Lobeline sulfate, bots., works oz. 37.50 -38.50
Locust bean gum, powd., bgs. .... lb. .38 - .50
Logwood extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l. ..... lb. .39 - —
Liq. No. 1, bbls., l.c.l. ..... lb. .20 - —
No. 2, bbls., l.c.l. ..... lb. .19 - —
No. 3, bbls., l.c.l. ..... lb. .18½- —
Solid, No. 1, bxs., c.l. ..... lb. .35 - —

Lycopodium, cs. ..... lb. 9.00 - —
l-Lysine monohydrochloride, fib. dms., 25 lbs. or more .. lb. 6.00 - —

M

Mace, Siauw, No. 1, bls ..... lb. 2.45 - —
No. 2 whole, bls ..... lb. 2.10 - —
sifting, bls. ..... lb. 1.95 - —
Mace oil, dist., cns., dms. ..... lb. 12.75 -15.75
Magnesia, calcined, tech., bgs., ctns., frt. equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb. .29¾- .30½
rubber grade, extra light, bgs., c.l., frt. equald lb. .29¾- —
bgs., l.c.l., frt. equald lb. .30½- —
Magnesia, calcined, USP, light bgs. lb. .36½- .37½
heavy, fib. dms. ..... lb. .45 - .52
Magnesite, chemical grade, calcined, powd. bgs., c.l., works, frt. equald ton. 82.50 - —
Magnesite, chemical grade, dead-burnt, standard grain bulk c.l., Chawelah, Wash. ton. 46.00 - —
Magnesium bromide, cs., jars .... lb. .93 - 1.00
Magnesium carbonate, tech., bgs., c.l., frt. equald. lb. .10½- —
bgs., t.l., frt. equald ..... lb. .11 - —
bgs., l.c.l., frt. equald ..... lb. .12½- .13½
USP, bgs., c.l., frt. equald ..... lb. .13 - —
bgs., t.l., frt. equald ..... lb. .13½- —
bgs., l.c.l., frt. equald ..... lb. .14½- .15½
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd., 92% flake or pebble dms., c.l., works lb. .12¾- —
dms., l.c.l., works ..... lb. .14 - .15
Magnesium chloride, hydrous, 99% flake, bgs., c.l., works. ton. 55.00 - —
bgs., l.c.l., works ..... ton. 65.00 -80.00
Magnesium gluconate, dms. ..... lb. 1.42 - —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b., works lb. .24½- .25½
Magnesium lauryl sulfate, dms., c.l., frt. alld lb. .21 - —
dms., l.c.l., frt. alld. ..... lb. .22 - —
tanks, frt. alld. ..... lb. .20 - —
Magnesium metal, 99.8% ingots, 10,000-lb. lots or more, works lb. .36 - —
Pigs, 10,000-lb. lots or more, works lb. .35¼- —
Sticks, cs. works frt. alld. on carlots lb. .59 - —
Magnesium nitrate, cryst., dms., works lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium peroxide, 15%, dms., works lb. 1.00 - 1.05
Magnesium phosphate tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc).
Magnesium silicofluoride, dms., works lb. .10½- .12
Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
bgs., l.c.l., works ..... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
bgs, l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
bgs, smaller lots ..... 100 lbs. 3.35 - —
Magnesium trisilicate, USP, fib. dms., 5,000-lb. lots lb. .38 - —
fib. dms., 1,000-lb lots ..... lb. .40 - —
fib. dms., 100-lb lots ..... lb. .45 - —
Bulky and super grades of magnesium trisicilate 7c. per lb. higher.
Malachite green, straight, PTMA, bbls, works lb. 5.30 - —
Malathion, dms., c.l., works .... lb. .89 - —
dms., l.c.l., works ..... lb. .92 - 1.01
Maleic acid, cryst., powd., dms lb. .37¼- —
Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .28¾- —
dms., l.c.l., dlvd. E. of Rockies lb. .29¾- —
tanks, dlvd E. of Rockies lb. .27¾- —
Prices on maleic anhydride W. of Rockies, 1½c. per lb. higher.
Malic acid, tech., dms. ..... lb. .50 - —
Mandelic acid, NF, dms., 1,000-lb. lots lb. 2.35 - —
dms., smaller lots ..... lb. 2.40 - 2.50
Mandrake root, bls. ..... lb. .48 - .50
Manganese acetate, dms. dlvd lb. .35 - —
Manganese borate tech., fib. dms. lb. .23½- —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb. lots and more, works lb. .11 - .16
Manganese chloride, CP, anhyd., dms., 20,000-lb. lots, works lb. .21¾- —
smaller lots, works ..... lb. .23½- —

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Pure California cold pressed lemon oil processed by California's leading lemon grower, packaged for your protection in tamper proof containers, *now* available for prompt delivery through the industry's well known flavor and essential oil distributors:

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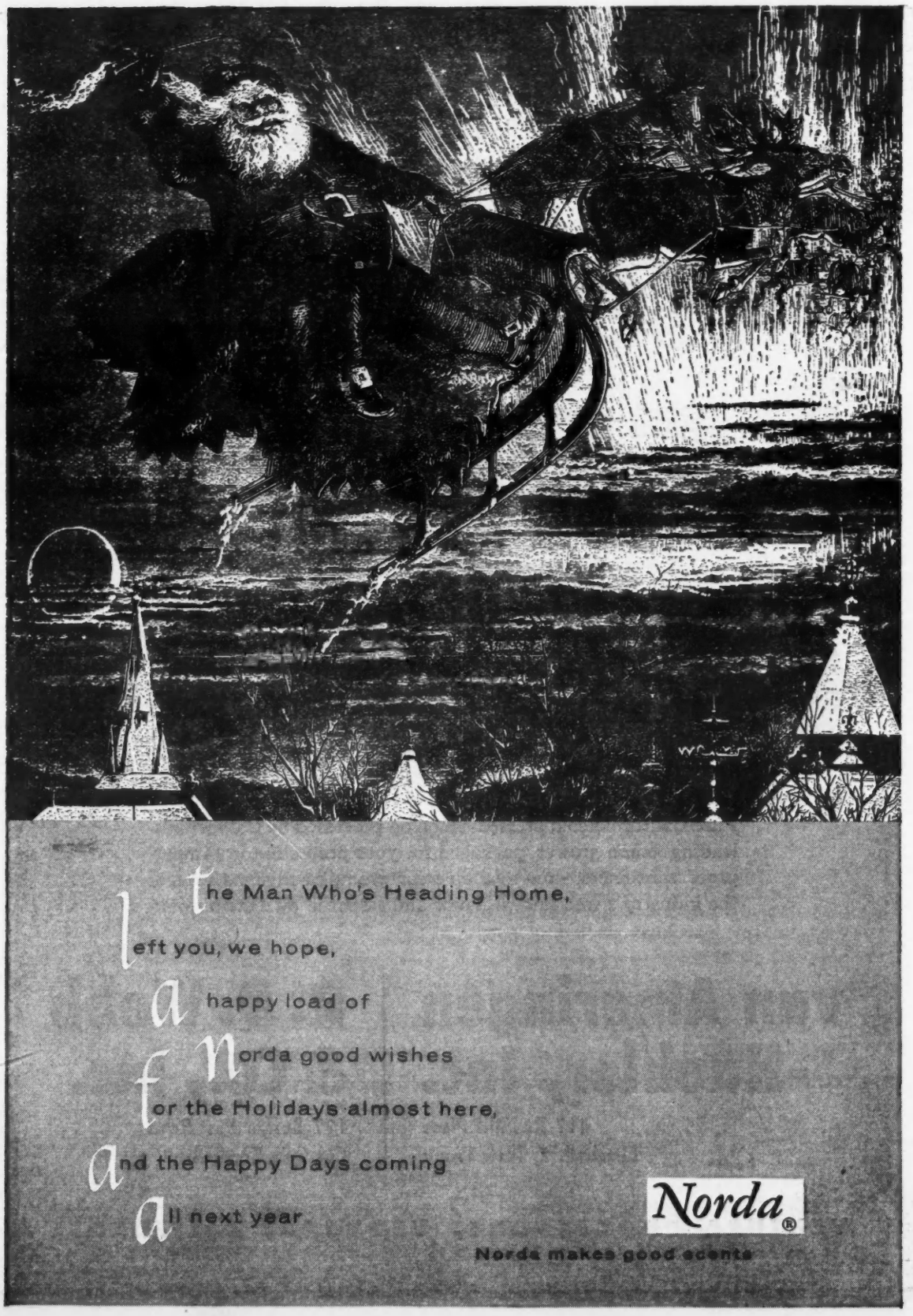
Manganese Dioxide—Methylene Blue

Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works ton.148.00 - —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, paper bgs., same basis ton.144.50 - —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, dms., same basis ton.152.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Manganese gluconate, dms. lb. 1.84 - —
Manganese hydrate, dms., dlvd lb. .35 - —
Manganese hypophosphite, NF, dms. lb. 3.52 - —
Manganese linoleate, liq., 4 35% Mn, dms lb. .35¾- —
Solid, precip., 8.2% Mn, bbls lb. .41¼- —
Manganese metal, electrolytic, dms., c.l., dlvd. E. lb. .34 - —
dms., ton lots, dlvd. E. lb. .36 - —
dms., smaller lots, dlvd. E. lb. .38 - —
Manganese naphthenate, liq., 6% Mn, dms., frt. alld lb. .29¾- —
Manganese resinate, fused, 3½% Mn, dms lb. .25¼- —
Precip., 6¼-7% Mn, dms lb. .33 - —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd. S. E. ton.97.50 - —
bgs., l.c.l., dlvd. S. E. ton.104.50 - —
Manganese tallate, 6%, dms lb. .24 - —
Mangrove bark, E. African, 38% tannin bgs. c.l., ex dock ton.67.00 -68.00
Mangrove bark, South American, 30% tannin, bgs., c.l., ex dock ton.47.00 -50.00
Manila copal gum, C, bgs. lb. .35 - .39
DBB, bgs. lb. .25 - .28
DK, bgs. lb. No stocks.
DK, dust bgs. lb. .14 Nom.
MA, soft, bgs. lb. .20 - .24
WS, bgs. lb. No stocks.
Mannitol, com'l, fib. dms., ton lots, works lb. .60 - —
fib. dms. to ton lots, works lb. .62 - —
fib. dms., single dm., works lb. .65 - —
Marine pitch, dms. lb. .04¼- .05
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works lb. .30 - —
bgs., l.c.l., works lb. .31 - —
Menadione, USP, bots. gram. .044 - .05
Menhaden oil, crude, tanks, works, Atl. & Gulf lb. .07⅞- .08
Menthol, nat., USP, Brazilian, cs. lb. 5.00 - 5.25
Japanese, cs. lb. 7.00 - 7.18
Syn., USP, racemic cns lb. 4.50 - —
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .44 - —
bgs., fib. dms. less ton lots, same basis lb. .46 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton lots, works, frt. alld lb. .54 - —
bgs., fib. dms., less ton lots, same basis lb. .56 - —
Mercuric chloride, NF, cryst., dms., 50-lb lots or more lb. 4.98 - —
gran. or powd., dms., 100-lb. lots or more lb. 4.78 - —
Mercuric cyanide NF VIII, powd., fib. dms lb. 6.84 - —
Mercuric iodide, red, NF X, fib. dms., lb 7.72 - —
Mercuric oxide, red, NF X, powd., 50-lb. lots or more lb. 5.97 - —
Tech., 100-lb. lots or more, works lb. 5.77 - —
Mercuric oxide, yellow, NF X, fib. dms lb. 6.14 - —
tech., bbls., 1,000-lb. lots lb. 5.56 - —
bbls., smaller lots lb. 5.60 - —
Mercurous chloride (see Calomel).
Mercurous iodide, yellow, NF, fib. dms lb. 7.72 - —
Mercury, ammoniated (see White precipitate, USP XV).
Mercury metal, 76 lbs. per flask, net flask.222.00 -226.00
Mesityl oxide, dms., c.l., dlvd. lb. .15 - —
dms., l.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .12½- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid, dms., works lb. .57 - .75
Metanitroparatoluidine (see m-Nitro-toluidine).
Metanitroaniline (see m-Nitroaniline).
Metaphenylenediamine (see m- Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methacrylic acid, glacial, 98%, dms., truckloads, works lb. .47 - —
dms., smaller lots, works lb. .47½- .50
tanks, works lb. .45 - —
Methanol, nat., denaturing grade, tanks, frt. alld gal. .33 - —
Syn., zone 1, dms., c.l. or t.l. min., dlvd gal. .47½- —
dms., l.c.l., dlvd. gal. .54½- —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .31 - —
tankwagon, 4,000 gal. min., dlvd gal. .26 - —
tankwagon, 4,000 gal. min., works gal. .25 - —
Zone 2, dms., c.l., or t.l., min. frt. alld. or dlvd. gal. .51½- —
dms., l.c.l., works gal. .58½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .35 - —
tanks, 4,000 gal. min., dlvd. gal. .30 - —
Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah, Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine).
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt. equald lb.27.25 - —
Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald lb.21.75 - —
Methionine hydroxyanalogue, (calcium salt) 90% min., dms., t.l., frt alld lb. 1.25 - —
dms., l.t.l., same basis lb. 1.29 - —
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 3.50 - —
Feed grade, 98%, fib. dms., same basis lb. 1.35 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .66 - .70
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .21½- —
non-ret. dms., l.c.l., same basis.lb. .22 - .22½
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd. zone 1 lb. .23½- —
non-ret. dms., l.c.l., same basis. lb. .24 - .24½
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Methyl acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
Syn., dms., c.l., frt. alld. E. gal. .66 - —
dms., l.c.l., frt. alld. E. gal. .72 - —
tanks, frt. alld. E. gal. .51 - —
Synthetic methyl acetone E. territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of all states west of those four.
Methyl acrylate, dms., c.l., t.l., dlvd. lb. .39 - —
dms., l.t.l., dlvd. lb. .40 - —
tanks, dlvd. lb. .37 - —
Methyl alcohol (see Methanol).
Methyl amyl acetate, dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., dlvd, E. lb. .18 - —
tanks, dlvd. E. lb. .14½- —
Methylamyl alcohol, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Methylamyl ketone, dms., works.lb. 1.05 - —
Methyl anthranilate, cns. lb. 2.25 - 2.75
Methyl benzoate, cns., dms. lb. .65 - .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld lb. .62 - .65
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .82 - —
50-lb. bgs., 2,000-lb. lots and more, same basis lb. .89 - —
50-lb. bgs., smaller lots, frt. alld. on 100 lbs lb. 1.05 - —
Methyl cellulose, standard vis. (15,-400 cps.), 50-lb. bgs., c.l., frt. alld lb. .69 - —
50-lb. bgs., 2,000-lb. lots and more, same basis lb. .76 - —
50-lb. bgs., smaller lots, frt. alld. on 100-lbs lb. .79 - .89
Methyl chloride, indust., cyls., frt. equald lb. .22¼- —
tanks, multi-unit, same basis. lb. .16¼- —
tanks, single unit, same basis. lb. .12¾- —
Refrigerator mfrs., cyls., dlvd lb. .48¾- —
other consumers or service men, cyls., dlvd lb. .67¾- —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns. lb. 1.55 - 1.80
Methyl ethyl ketone, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .12½- —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb. .45 - —
dms., l.c.l., works lb. .45¾- —
tanks, works lb. .43 - —
Methyl formate, refd., dms. lb. .35 - .40
Tech., non-ret. dms., any quantity, works lb. .10 - —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works lb. .21 - —
100-lb. multiwall paper bgs., t.l., min. 23,000 lbs., works lb. .21½- —
100-lb. multiwall paper bgs., l.t.l., works lb. .23 - —
Methyl heptin carbonate, bots lb.28.00 -31.00
Methyl p-hydroxybenzoate, fib. dms. lb. 1.90 - 2.00
Methyl ionone, standard, cns., dms. lb. 3.40 - 3.85
Methyl isobutyl carbinol (see Methyl amyl alcohol).
Methyl isobutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .14½- —
Methyl methacrylate, dms., c.l., t.l., frt. equald, with Belle, W. Va. lb. .31 - —
dms., smaller lots, same basis. lb. .31½- —
tanks, same basis lb. .29 - —
Methyl naphthyl ketone, cryst., cns lb. 3.00 - 4.30
Methyl parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Methyl parathion, tech., 80%, dms., frt. alld. E. lb. .84 - —
Methyl parathion prices 2c. per lb. higher in West.
Methyl roseaniline chloride, NF., 5-lb. fib. dms. lb. 6.90 - —
Methyl salicate, USP, cns., 500-lb. lots lb. .62½- .67½
Methyl testosterone, USP, 100-gram bots gram. No Prices.
Methyl violet toner, molybdated, PMA, bbls., dlvd. E. of Rockies lb. 2.80 - —
Methyl violet toner, tungstated, PTMA, bbls., same basis. lb. 4.35 - —
Methyl violet prices 1c. higher W. of Rockies.
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - —


It the Man Who's Heading Home,
left you, we hope,
a happy load of
fn orda good wishes
for the Holidays almost here,
and the Happy Days coming
all next year
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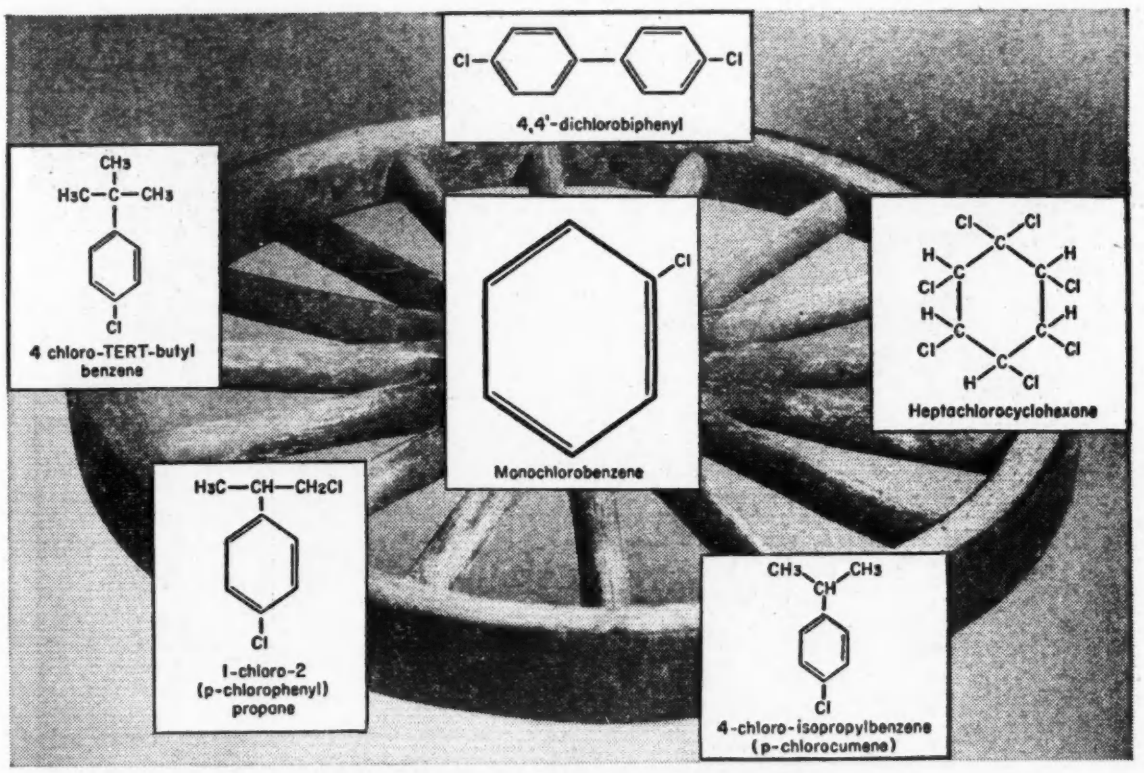
Norda makes good scents

Methylene chloride, tech., straight or assorted, dms., c.l., or t.l., dlvd. lb. .14 - —
dms., l.c.l., l.t.l., dlvd. lb. .16¾ - —
tanks, 4,000-gal. min., tank trucks, maximum load limit, dlvd lb. .12½ - —
tanktrucks, 1,000-gal. min., dlvd lb. .13½ - —
b-Methylnaphthalene, 32°C., m.p., dms., works lb. .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs. c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
Mica, wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06½ - —
bgs., l.c.l. ex-whse. lb. .07¼ - —
paint or lacq., bgs., c.l., 325 mesh, works frt. alld. E. lb. .08¼ - —
bgs., l.c.l., ex-whse. or freight alld. E lb. .09 - —
rubber, bgs., c.l., works, frt. alld E lb. .03 - —
bgs., l.c.l., ex-whse or frt. alld. E lb. .08¾ - —
wallpaper, bgs. c.l., works, frt. alld. E lb. .08¾ - —
bgs. ex-whse. or frt. alld. E. lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼ - —
l.c.l., ex-whse., or frt. alld. E. lb. .09 - —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies 1c. higher.
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12
Mineral black, bgs., works lb. .0160 - .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. refy gal. .62 - —
non-ret. dms., l.c.l., same basis gal. .67 - —
tankcars refy. gal. .46 - —
65-75 vis., non-ret. dms., c.l., same basis gal. .62 - —
tankcars, refy. gal. .46 - —
80-90 vis., non-ret. dms., c.l., same basis gal. .63 - —
non-ret. dms., l.c.l., same basis gal. .68 - —
tankcars, refy gal. .47 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .69 - —
non-ret. dms., l.c.l., same basis gal. .74 - —
tankcars, refy gal. .53 - —
145-155 vis., non-ret. dms., c.l., same basis gal. .75 - —
non-ret. dms., l.c.l., same basis gal. .80 - —
tankcars, refy gal. .59 - —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .77 - —
non-ret. dms., l.c.l., same basis gal. .82 - —
tankcars, refy gal. .61 - —
200-210 vis., non-ret. dms., c.l., f.o.b., New York gal. .84 - —
non-ret. dms., l.c.l., same basis gal. .89 - —
tankcars, refy. gal. .63 - —
300-350 vis., non-ret. dms., c.l., f.o.b. New York gal. .84½ - —
non-ret. dms., l.c.l., same basis gal. .89½ - —
tankcars, refy. gal. .68½ - —
Mineral orange, American, bbls., c.l., works lb. .1760 - —
bbls., l.c.l., same basis lb. .1860 - —
Mineral spirits, petroleum, odorless, tanks, refy. Watson, Calif. gal. .25 - —
tanks, Borger, Tex. gal. .25 - —
Houston, Tex. gal. .25 - —
Philadelphia gal. .32 - —
Newark gal. .29 - —
New York, dlvd. gal. .30½ - —
Wood River, Ill. gal. .2725 - —
tankwagon, New Jersey, dlvd. gal. .27½ - —
tankwagon, New York, dlvd. gal. .38½ - —
Mineral spirits, petroleum, regular, tanks, Calif., ex tax San Francisco gal. .169 - —
tanks, east coast, New Jersey, New York gal. .18 - —
tanks, group 3 gal. .12875 - —
tanks, Houston, Tex. gal. .145 - —
tankwagon, Boston gal. .20 - —
Buffalo gal. .20½ - —
Chicago gal. .239 - —
Cleveland gal. .23½ - —
Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½ - —
Pittsburgh gal. .19 - —
Providence gal. .20½ - —
Mirbane oil (see Nitrobenzene)
MNPT maroon toner, kgs., c.l., works lb. 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .12¼ - .13
tanks, New York gal. .17 - —
Molybdated orange, bbls. lb. .43 - —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works kilo. 9.13 - —
Molybdenum trioxide, purif., dms., works lb. 1.13 - —
Tech., chemical, dms., works, basis Mo. content lb. 1.43 - —
Tech., metallurgical, dms., works, basis Mo. content lb. 1.47 - —
Molybdic acid, 85%, dms., works. lb. 1.05 - 1.15
Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Monobutylamine, dms., c.l., dlvd. E. of Rockies lb. .57½ - —
dms., l.c.l., same basis lb. .58½ - —
tanks, same basis lb. .55 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .53 - —
dms., l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Monochloracetic acid, purif. (see Chloroacetic acid, mono).
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E. lb. .10¼ - —
dms., l.c.l., same basis lb. .11½ - —
tanks, same basis lb. .08¾ - —
Monoethanolamine, dms., c.l., dlvd. E. lb. .27½ - —
dms., l.c.l., same basis lb. .28½ - —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E. 100% basis lb. .38½ - —
dms., l.c.l., dlvd. E., 100% basis. lb. .40 - —
tanks, dlvd. E., 100% basis lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthoteluidine (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd E. lb. .27½ - —
dms., l.c.l., same basis lb. .28½ - —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., dlvd. lb. .33¼ - —
dms., l.c.l., same basis lb. .34½ - —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., l.c.l., frt. equald., 100% basis lb. .30 - —
tanks, same basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
dms., l.c.l., frt. equald., 100% basis lb. .36½ - —
tanks, frt. equald., 100% basis. lb. .26 - —
40% soln., dms., frt. equald., 100% basis lb. .33 - —
dms., l.c.l., frt. equald., 100% basis lb. .33½ - —
tanks, frt. equald., 100% basis. lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., dlvd. E lb. .30 - —
bgs., l.c.l., dlvd. E. lb. .31 - —
Monopotassium glutamate, dms., 1,000-lb. lots, frt. alld lb. 3.05 - —
dms, 100-lb. lots, same basis lb. 3.25 - —
Monosodium glutamate, dms., any quantity, dlvd lb. 1.07 - —
Monosodium phosphate (see sodium phosphate, monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-butyl-m-cresol).
Montan wax, dom., refd., bgs. lb. .29 - .30
Imp., crude, Bohemian, bgs. lb. .22 - .24
German, bgs. lb. .26 - .27
Morphine, cns. oz. 12.40 - 12.60
Morphine acetate, anhyd., cns. oz. 9.95 - 10.00
Morphine hydrobromide, cns. oz. 9.90 - 9.95
Morphine hydrochloride, NF, cns oz. 9.90 - 9.95
Morphine sulfate, USP, cns. oz. 9.90 - 10.03
Morpholine, dms., c.l., dlvd. E lb. .55¼ - —
dms., l.c.l., dlvd. E. lb. .56¼ - —
tanks, dlvd. E. lb. .52¾ - —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib. dms., 100-lb. lots lb. 4.45 - 5.15
cns., 25-lb. lots lb. 5.05 - 5.65
Ketone, fib. dms., 100-lb. lots lb. 4.70 - 5.30
cns., 25-lb. lots lb. 5.35 - —
Xylol, fib. dms., 100-lb. lots lb. 1.40 - —
cns., 25-lb. lots lb. 1.45 - —
Mustard seed, Danish, yellow, bags. lb. .11½ - —
Montana, yellow, bgs. lb. .10¾ - —
Montana, No. 1, Oriental, bgs lb. .08½ - —
Mustard oil, syn. bots. lb. 1.60 - 1.85
Mustard seed oil, nat., dms. lb. 9.50 9.85
Myristic acid, bgs. lb. .27 - .29½
tanks lb. .26¾ - —
Myrobalans, Bombay ton. 44.00 -45.00
J-1, genuine, bgs., ex dock ton. 50.00 -51.00
J-1, crushed, bgs., ex dock ton. 65.00 -66.00
Myrobalans, extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10½ - .10¾
Myrrh gum, cs. lb. .50 - .55

N

Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaner's, 140°F, flash, tanks, east coast, New Jersey and New York gal. .18 - —
tanks, group 3 gal. .15 - .15⅛
tanks, Houston, Tex. gal. .19 - —
tankwagon, Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½ - —
Naphtha, VM&P, petroleum, 225°-300°F., b.r., tanks, west coast, Los Angeles gal. .174 - —
Portland, Ore. gal. .18 - —
San Francisco gal. .179 - —
Seattle, Wash. gal. .18 - —
east coast, New Jersey and New York gal. .19 - —
group 3 gal. .13875 - —
Naphtha, VM&P, petroleum, tankwagon, Boston gal. .21½ - —
Chicago gal. .209 - —
Cleveland gal. .24½ - —
Houston, Tex. gal. .15½ - —
Newark gal. .20½ - —
New York gal. .20½ - —
Philadelphia gal. .21½ - —
Pittsburgh gal. .20 - —
Naphthalene, crude, dom., 74°, tanks, frt. equald lb. .06¼ - —
78°, bgs., c.l., same basis lb. .07½ - .08
bgs., l.c.l., same basis lb. .07¾ - .08¼
tanks, same basis lb. .07 - —
Imp., 78°, bgs., large lots lb. .04 - —
Refd., Indust., chipped, crushed, bgs., frt. equald lb. .12½ - —
tanks, same basis lb. .11¾ - —



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SOLVAY MONOCHLOROBENZENE

Like spokes in a hub, many aromatic-based organic compounds are centered around SOLVAY Monochlorobenzene, which readily nitrates, sulfonates, hydrolyzes and reacts with other compounds.

It is also a basic raw material for DDT, "sulfur black" dyes and phenol. Solvent properties are outstanding—kauri-butanol, *120*—and widely applied in rubber, resins, drugs, perfumes, adhesives, paints, polishes, waxes.

But your operation may have an entirely different assignment for SOLVAY Monochlorobenzene. We invite you to experiment with it. Mail the coupon for samples and further information.

Physical Properties

Chemical Formula	C_6H_5Cl
Freezing Point	—49.4°F (—45.2°C)
Boiling Range	267.5 to 269.5°F (130-132°C)
Formula Weight	112.56
Pounds per Gallon at 20°C	9.2
Specific Gravity (20°/4°C)	1.107
Flash Point (Open Cup), °C	31
Fire Point, °C	39
Distillation Range, °C	130.6-131.8
Solubility	(a) Water: Insoluble (b) Alcohol: Soluble (c) Ether: Soluble
Corrosive Properties (Metals)	Noncorrosive

Sodium Nitrite • Calcium Chloride • Chlorine • Caustic Soda • Caustic Potash Chloroform • Potassium Carbonate • Sodium Bicarbonate • Vinyl Chloride • Methyl Chloride • Ammonium Chloride • Methylene Chloride • Monochlorobenzene Soda Ash • Para-dichlorobenzene • Ortho-dichlorobenzene • Carbon Tetrachloride Ammonium Bicarbonate • Snowflake® Crystals • Aluminum Chloride • Cleaning Compounds • Hydrogen Peroxide • Mutual® Chromium Chemicals

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Name _____
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Company _____
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City _____ Zone _____ State _____

Naphthalene—Orange Peel

Naphthalene, refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .15½- —
cs., 50 lbs., c.l., same basis. lb. .15¾- —
1-lb. pkgs., c.l., same basis. lb. .18½- —
a-Naphthol, bbls., frt. alld .... lb. 1.00 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
bbls., l.c.l., works ..... lb. .35 - —
Naphthol, ITR, red toner, bbls., works lb. 5.50 - —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid).
1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid).
1-Naphthol-5-sulfonic acid (see L acid).
1-Naphthol-5-sulfonic 8-amino acid (see S acid).
2-Naphthol-6,8-disulfonic acid (see Gamma acid)
Naphthol sulfonic mixed acid (see Cleve's acid).
a-Naphthylamine, bbls., frt. alld lb. .50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.00 - —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid).
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).
2-Naphthylamine-1-sulfonic acid (see Tobias acid).
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).
2-Naphthylamine-7-sulfonic acid (see F acid).
Naringin, fib., dms ..... lb. 8.50 - —
Neatsfoot oil, 15° cold test, dms. lb. .30 - .33
20° cold test, dms. lb. .29 - .32
30° cold test, dms. lb. .28 - .31
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin sulfate, fib. dms., 1-kilo basis activity gram. .25 - —
fib. dms., 100-999-gram lots, basis activity gram. .30 - —
Neroli oil, NF, French, bots. .... lb. 550.00 -575.00
Tunisian, bots. ..... lb. 400.00 - —
Nerolin, cns. ..... lb. 2.55 - 2.85
Nevile and Winther's acid, dms., frt. alld lb. 1.30 - —
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd ..... lb. .68½- .75½
Nickel carbonate, bbls., dlvd ... lb. .78¼- .83¼
Nickel chloride, bbls., dlvd .... lb. .37 - .45
Nickel formate, bbls., ton lots, frt. alld lb. .72 - .73
Nickel metal electro cathodes, cs., works lb. .74 - —
Nickel nitrate, bbls., works ..... lb. .32½- .33½
Nickel oxide, black, bbls ..... lb. .85 - —
Green, bbls. ..... lb. .84 - —
Nickel sulfate, bgs., c.l., dlvd .... lb. .28 - —
bgs., l.c.l., dlvd ..... lb. .28½- .36
Nicotinamide, USP, dms., frt. adjusted kilo. 9.50 - 9.80
Nicotinamide hydrochloride, dms., frt. adjusted kilo. 9.50 - 9.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 - —
40%, manufacturers, 500-lb. dms., frt. alld lb. 1.03 - —
Nicotinic acid, USP, dms., dlvd kilo. 8.00 - 8.30
Nicotinic amide, USP (see Nicotinamide).
Niger seed, bgs. ..... lb. .10¼- —
Nikethamide, cbys. ..... lb. 5.00 - —
Nitric acid, 36° Be., cbys., c.l., works E. 100 lbs. 5.75 - —
cbys., l.c.l., works E ... 100 lbs. 6.05 - 6.85
38° Be., cbys., c.l., works, E. 100 lbs. 6.25 - —
cbys., l.c.l., works E. ... 100 lbs. 6.55 - 7.35
40° Be., cbys., c.l., works, E. 100 lbs. 6.75 - —
cbys., l.c.l., works, E. . 100 lbs. 7.05 - 7.85
42° Be., cbys., c.l., works, E. 100 lbs. 7.25 - —
cbys., l.c.l., works, E ... 100 lbs. 7.55 - 8.35
Nitric acid, 58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —
Nitric acid, CP, NF, consumer, cbys. extra, c.l., works lb. .18½- —
cbys. extra, l.c.l., works. lb. .20 - —
5-pint bots., extra, cs., c.l., same basis lb. .22½- —
5-pint bots., extra, cs., l.c.l., same basis lb. .24 - .25
m-Nitroaniline, cryst., dms., frt. alld lb. 1.15 - —
Paste, dms., frt. alld., 100% basis. lb. 1.10 - —
o-Nitroaniline, flaked, dms., t.l., frt. alld lb. .49 - —
dms., l.t.l., frt. alld ..... lb. .51 - —
o-Nitroaniline orange toner, kegs, lb. 1.35 - —
p-Nitroaniline, dms. frt. alld .... lb. .443 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .13 - —
dms., l.c.l., frt. alld ..... lb. .14 - —
tanks, frt. alld ..... lb. .11 - —
p-Nitrobenzoic acid, dms., c.l., works lb. .63 - —
dms., l.c.l., works ..... lb. .64 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works lb. .37½- —
bbls., l.c.l., same basis lb. .33½- .40½
Ester-soluble, 18-20 cps., bbls., c.l., same basis lb. .39½- —
bbls., l.c.l., same basis lb. .40½- .42½
Nitrocellulose, ester-soluble, 250-400, 600-1,000 seconds, bbls., l.c.l., same basis lb. .43 - .46
Spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis. lb. .43 - —
bbls., l.c.l., same basis lb. .44 - .46
5-6 cps., 40-60 seconds, bbls., c.l., same basis lb. .42 - —
bbls., l.c.l., same basis lb. .43 - .45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms., c.l., frt. alld lb. .15 - —
dms., l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
p-Nitrochlorobenzene, dms. ... lb. .26 - .27
Nitroethane, dms., c.l., dlvd. E lb. .24 - —
dms., l.c.l., dlvd. E ..... lb. .24¾- —
tanks, dlvd. E ..... lb. .22½- —
Nitroethane prices West of Rockies are 1c. higher.
Nitrogen solutions, tanks, frt. equald unit. 1.14 - —
Nitrogenous process tankage, bulk, works unit-ton. 4.00 Nom.
Nitrogenous sewage sludge, quick, f.o.b. Chicago, works unit-ton. 3.10 - .50
Nitromethane, dms., c.l., dlvd E lb. .24 - —
dms., l.c.l., dlvd. E ..... lb. .24¾- —
tanks, dlvd. E ..... lb. .22½- —
Nitromethane prices West of Rockies are 1c. higher.
a-Nitronaphthalene, bbls., frt. alld. lb. .31 - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., c.l., frt. alld. lb. .45 - —
dms., l.c.l., frt. alld ..... lb. .47 - —
1-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .22½- —
dms., l.c.l., same basis ..... lb. .23¼- —
tanks, same basis ..... lb. .21 - —
2-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .18½- —
dms., l.c.l., same basis ..... lb. .19½- —
tanks, same basis ..... lb. .16 - —
Nitropropane prices West of Rockies are 1c. per lb. higher.
o-Nitrotoluene, dms., c.l., frt. alld. lb. .13 - —
dms., l.c.l., frt. alld ..... lb. .14 - —
tanks, frt. alld ..... lb. .11 - —
p-Nitrotoluene, tech., cast, tanks, works lb. .23½- —
c.l., t.l., dms., same basis lb. .27½- —
l.c.l., dms., same basis ... lb. .28 - —
Flake, cl., t.l., works ..... lb. .27½- —
l.c.l., dms., same basis ... lb. .28 - —
m-Nitro-p-toluidine, dms. ..... lb. 1.25 - —
Nonylphenol, dms., c.l., frt. alld. lb. .22 - —
dms., l.c.l., frt. alld ..... lb. .23 - —
tanks, frt. alld ..... lb. .19½- —
Nonylphenol prices on shipments to Western States are 2c. higher.
Nutgalls, Aleppo, bgs. ..... lb. .35 - .38
Chinese, bgs. ..... lb. No prices.
Nutmegs, East Indian, whole, bgs. lb. 1.90 - —
West Indian, bgs ..... lb. 1.86 - —
Nutmeg oil, USP, dist., East Indian, cns lb. 11.25 -15.75
Nutmeg oil, USP, dist., West Indian, cns lb. 11.25 -15.75
Nux vomica, bls ..... lb. .12 - —
Powd., bbls., bxs ..... lb. .18 - —

O

Ocher (see Iron oxide yellow, nat.).
Ocotea cymbarum oil, dms. ... lb. .39 - .65
Octane, indust., tanks, Bayonne, N.J gal. .20 - —
Borger, Tex. ..... gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd., Zone 1 lb. .37 - —
dms., l.c.l., dlvd, Zone 1 .. lb. .39 - —
tanks, dlvd., Zone 1 ..... lb. .34½- —
Octyl alcohol, perfumers' grade, bots lb. 1.60 - 3.25
Octyl alcohol, tech. (see 1-Octanol, tech).
Octyl phenol, bgs., c.l., works lb. .22 - —
bgs., l.c.l., works ..... lb. .22½- —
tanks, works ..... lb. .21 - —
Octyl phenol in dms., 11c. higher.

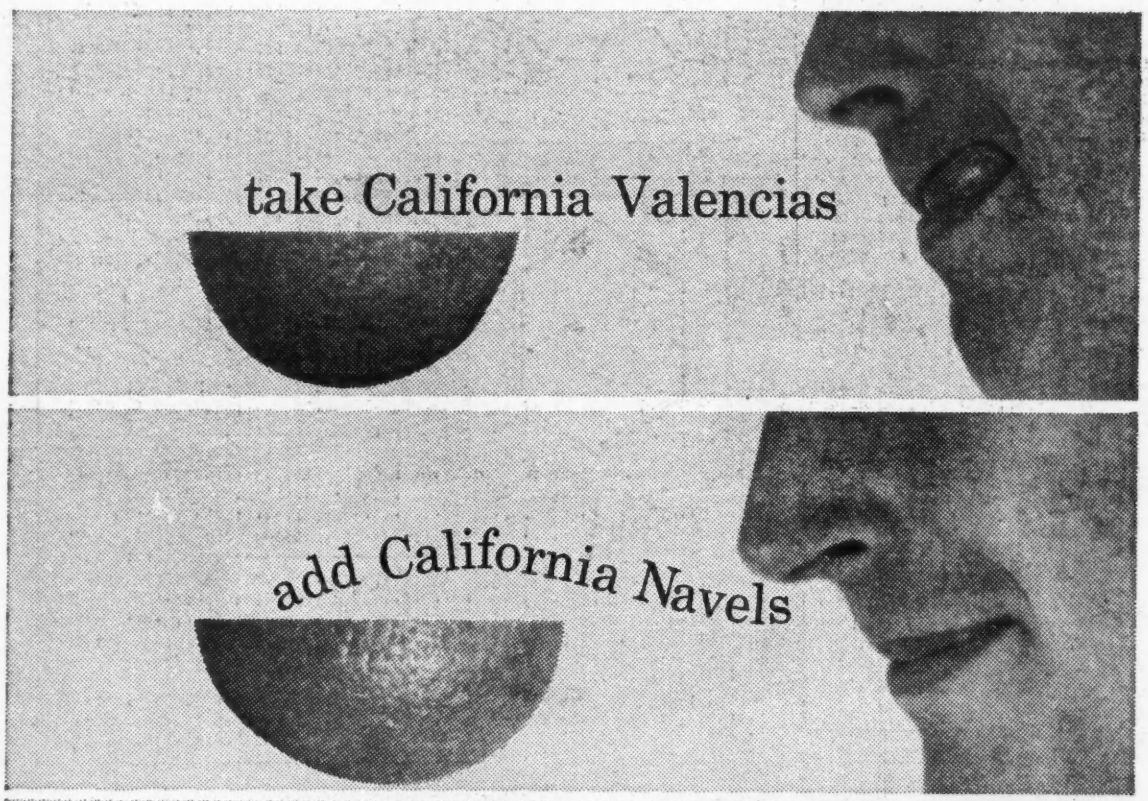
Oils

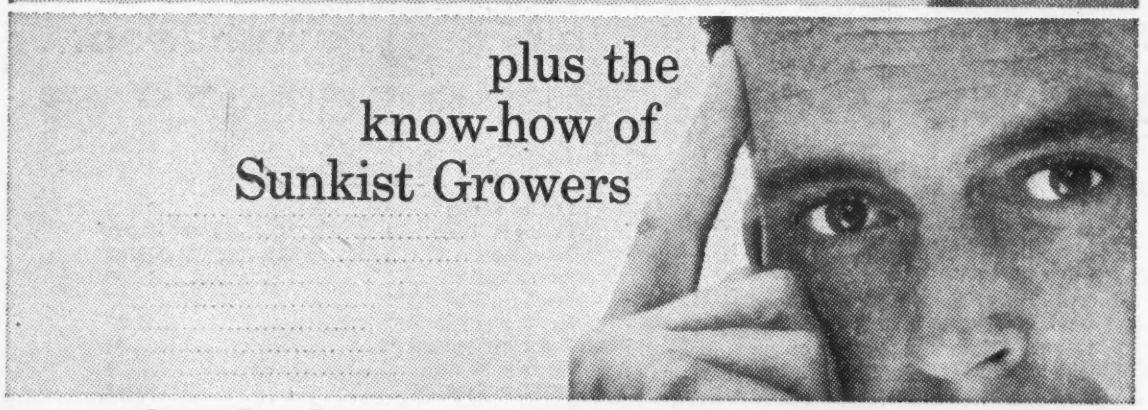
Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms ..... lb. .19 - .19½
tanks ..... lb. .17½- —
Oleic acid, dbl.-dist. (white), dms. lb. .18½- .21
tanks ..... lb. .16 - —
Single-dist., dms. ..... lb. .17¼- .19¾
tanks ..... lb. .14¾- —
Oleo oil, extra, dms. ..... lb. .17¼- .17½
Oleostearine, dms. ..... lb. .14 - .14¼
Oleum (see Sulfuric acid, fuming).
Olibanum gum, siftings, cs ..... lb. .20 Nom.
Tears, cs. ..... lb. .22 - .30
Olibanum oil, bots. ..... lb. 5.00 - 7.65
Extra fine, bots ..... lb. 8.00 - 9.50
Olive oil, edible, dms., spot, duty-paid gal. 2.40 - 2.45
Olivine, crude, works ..... ton. 12.00 - —
20 mesh, works ..... ton. 15.00 - —
100 mesh, works ..... ton. 20.00 - —
Opium, USP, cns ..... oz. 19.20 -19.45
gran., cns. ..... oz. 21.65 -21.90
powd., cns. ..... oz. 21.65 -21.90
Orange oil, expressed, USP, Brazilian, cns., dms lb. No stocks.
California, cns., dms ..... lb. 1.95 - 2.35
Florida, cns., dms ..... lb. 1.35 - 1.70
Messina, cns. ..... lb. 3.85 - 5.85
West Indian, cns., dms .... lb. 2.50 - 3.85
Sweet, dist., cns., dms ..... lb. .90 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
Sweet ..... lb. .30 - .35

Orange Pigments

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.





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76 Ninth Ave., New York 11, N.Y.
Ungerer & Company, Inc.
161 Avenue of the Americas, New York 13, N.Y.
Inquiries from countries other than U.S. and Canada should be directed to Sunkist Growers, Products Sales Department.

Origanum oil, Spanish, cns. lb. 1.80 - 2.30
Orris root, Florentine, bls. lb. .55 - —
powd., bbls., bxs. lb. .68 - —
Verona, bls. lb. .35 - .40
powd., bbls., bxs. lb. .44 - —
Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid, (see o-Chlorobenzoic acid).
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol).
Orthotolidine (see o-Tolidine base).
Orthotoluidine (see o-Toluidine).
Osage orange cryst., No. 1, bbls., l.c.l lb. .40 - —
Extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots. gram 3.00 - 4.00
Ouricury wax, crude, bgs. lb. .78 - .80
Refd., pure, bgs lb. .83 - .85
Oxalic acid, bbls., c.l., works lb. .18½- —
bbls., 10,000-lb. lots, works lb. .18¾- —
bbls., smaller lots, works lb. .19¾- —
b-Oxynaphthoic acid, fib dms., 250 lbs. or more, frt. alld., lb. 1.14 - 1.17
Oxyquinolin sulfate, cns., 100-lb. lots, works, lb. 4.75 - 5.00
cns., smaller lots, works lb. 4.92 - 5.17

P

Palm oil, clarif., dms. lb. .14 - .15
tanks lb. .1150- —
Palm oil acid, dist., dms. lb. .15¾- .19¼
tanks lb. .13¾- .14¼
Palmarosa oil, cns. lb. 3.50 - 6.00
Papain, purified lb. 8.50 -12.00
Papaverine hydrochloride, nat. or syn., USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
cns., smaller lots oz. 5.05 - 5.20
Papaverine sulfate, nat. or syn., USP, cns., oz. 7.10 - 7.35
Paprika, Bulgarian, bgs. lb. .28 - —
Hungarian, bgs. lb. .33 - —
Spanish, bgs. lb. .37 - .47
Yugoslavian, bgs. lb. .36 - —
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls. lb. 1.21 - —
Chlorinated, kgs. lb. 1.35 - —
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy. lb. .0710- —
Paraffin, fully refd., 122°-124°F, ASTM, tanks, refy lb. .0815- —
125°-127°F, ASTM, tanks, refy. lb. .0815- —
130°-132°F., ASTM, tanks, refy. lb. .0815- —
132°-134° F., ASTM, tanks, refy. lb. .0815- —
135°-137°F., ASTM, tanks, refy. lb. .0815- —
AMP temperatures are an arbitrary 3°F. higher than ASTM.
Parafin oil, pale, 100-110 vis. at 100°F., tanks, east coast refy. gal. .14 - —
Paraffin wax (see Paraffin).
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .0953- —
bgs., l.c.l., frt. alld lb. .1155- .1253
91%, powd., bgs. c.l., ex whse lb. .167 - —
bgs., l.c.l., ex whse lb. .182 - —
USP-X, fib. dms., c.l. lb. .19 - —
fib. dms., 1,000-lb. lots lb. .20 - —
fib. dms., smaller lots lb. .21½- —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms., l.c.l., dlvd lb. .15 - —
tanks, dlvd. lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene.
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, ethyl, dms., t.l., frt alld. lb. .84 - —
dms., l.t.l., frt. alld lb. .87 - —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Paris green, dealers, 100 lb. dms., frt. alld lb. .45 - —
Passion flower herb, bls. lb. No stocks.
Patchouli oil, dms. lb. 4.00 - 5.75
Peach kernel oil, USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb., bbls., dlvd. E. of Rockies lb. 1.00 - —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, 45%, old process, bgs., mills ton.60.00 - —
Peanut oil, crude, tanks, f.o.b. mills. lb. .14 - —
Refd., dms. lb. .19½- .20
tanks lb. .17½- —
Pectin, dom., NF, citrus, powd., bbls. lb. 2.05 - 2.06
tech., powd., 150 jelly grade, lb. 1.28 - —
Imp., Danish, ex whse lb. 1.28 - —
Penicillin potassium, cryst., bulk, 1,000,000 units. .04750- .0550
Penicillin, procaine, bulk 1,000,000 units. .050 - .0550
Penicillin, sodium, bulk 1,000,000 units. .0550- .060
Pennyroyal oil, USP, imported, cns. lb. 2.30 - 3.10
Pentachlorophenol, bgs., c.l., t.l., works, frt. equald. lb. .22 - —
bgs., l.c.l., same basis lb. .23¼- .30
Pentachlorophenol in dms. 1c. higher.

Pentaerythritol, tech., bgs., c.l., dlvd lb. .29¼- —
bgs., l.c.l., dlvd lb. .30½- —
Pentaerythritol, di- and tri- isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb. 6.00 - —
Pepper, black, Malabar, bgs. lb. .24 - —
black, Lampong, bgs. lb. .23½- —
black, Sarawak, bgs. lb. .23½- —
Pepper, red, Funtuas, bgs. lb. .32 - —
Gondars, bgs. lb. .30 - —
Japanese, Hontaka, bgs. lb. .25½- —
Santaka, bgs. lb. .24 - —
Sudanese, bgs. lb. .36 - —
Zanzibar, bgs. lb. .43 - —
White, Muntok, bgs. lb. .38½- —
Peppermint leaves, dom., USP, bls., dms lb. .70 - .75
Imp., USP., bls lb. .85 - —
Peppermint oil, nat., dms lb. 4.25 - 6.25
Redist., USP, dms lb. 4.60 - 5.95
Perchloroethylene, dms., c.l. or t.l., dlvd lb. .13½- —
dms., l.c.l., dlvd lb. .15¼- —
tanks, dlvd. lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd. lb. .12¼- —
Peri acid, dry bbls. frt alld. lb. 1.35 - —
Paste, bbls., frt. alld lb. 1.30 - —
Peru balsam, dms lb. 1.30 - 1.95
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil, South American, cns., dms lb. 2.40 - 2.95
Petrolatum, cream, dms., c.l., refy. lb. .07¾- —
dms., l.c.l., dlvd lb. .10¼- —
tanks, refy. lb. .05½- —
Petrolatum, extra amber, dms., c.l., refy lb. .06¾- —
dms., l.c.l. dlvd lb. .09½- —
tanks, refy. lb. .04½- —
Lily white, dms., c.l., refy. lb. .08½- —
dms., l.c.l., dlvd lb. .10½- —
tanks, refy. lb. .05⅞- —
USP, snow white, dms., c.l., refy. lb. .06¾- —
Petrolatum, USP, snow white, dms., l.c.l., dlvd lb. .11 - —
tanks, refy. lb. .06¾- —
USP, soft yellow, dms., c.l., refy. lb. .06¾- —
dms., l.c.l., dlvd lb. .09½- —
tanks, refy. lb. .04½- —
Petroleum pitch (see Asphalt, petroleum).

Petroleum Products

Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½- .18¾
non-ret. dms., l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55%, sulfonic content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms. c.l., frt. alld. E lb. .91 - —
dms., l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms., same basis lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lb. lots lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%) non-ret. dms., frt. alld. E of Rockies lb. .17½- —
non-ret. dms., l.c.l., same basis, lb. .18½- —
tanks, same basis lb. .15½- —
82-84% (cresol 16-18%), non-ret, dms., c.l., same basis lb. .17 - —
non-ret. dms., l.c.l., same basis, lb. .18 - —
tanks, same basis lb. .15 - —
39°C. or above, tar distilled non-ret. dms., c.l., same basis lb. .19 - —
non-ret. dms., l.c.l., same basis, lb. .20 - —
tanks, same basis lb. .17 - —

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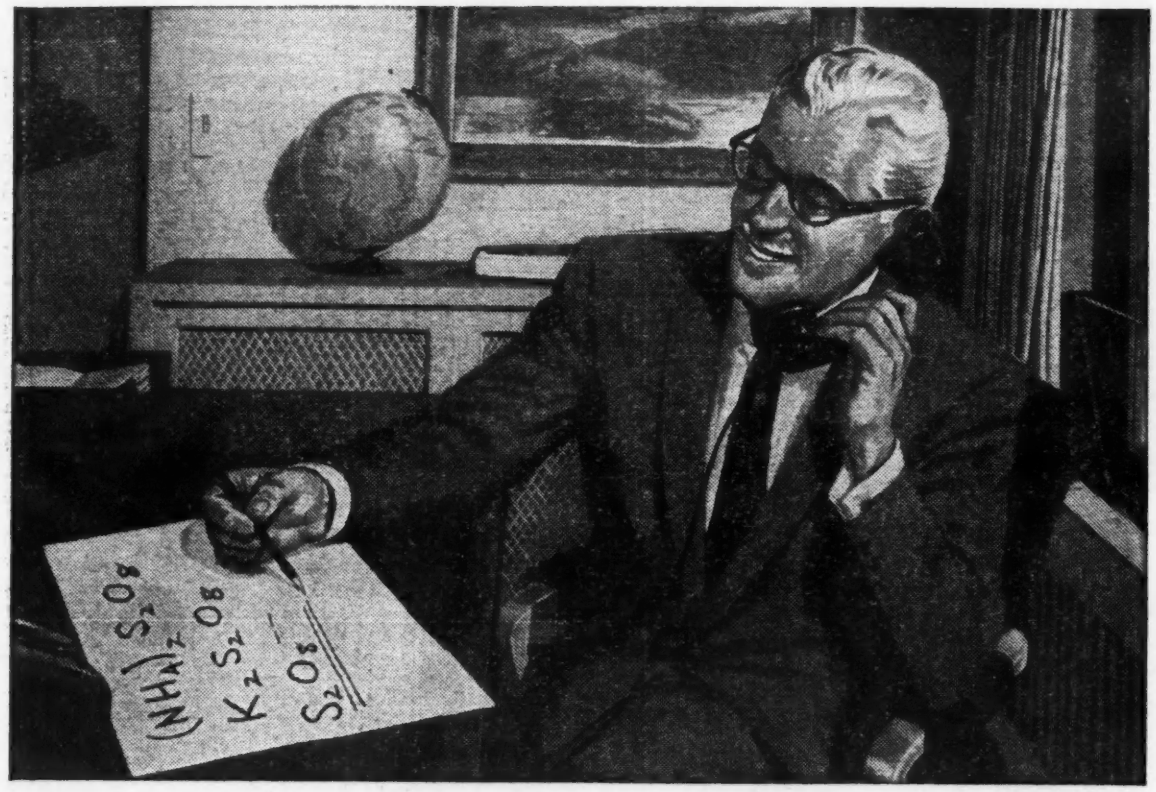
Phenol—Potassium Bitartrate

Phenol, USP, syn., dms., c.l., t.l., frt. alld. lb. .19½- —
dms., same basis lb. .21½- —
tanks, same basis lb. .17½- —
Phenolphthalein, USP or yellow, fib. dms., 2,000-lb. lots lb. 1.30 - 1.32
fib. dms., smaller lots lb. 1.32 - 1.37
Phenothiazine drench, fib. dms., t.l., dlvd lb. .44 - —
fib. dms., l.t.l., same basis lb. .47 - —
NF, fib. dms., t.l., same basis lb. .43 - —
fib. dms., l.t.l., same basis lb. .46 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol)
Phenylacetaldehyde, soln., 50%, bots. lb. 2.95 - —
100%, bots. lb. 4.00 - 4.65
Phenylacetic acid, pure, cryst., cns. lb. 1.25 - 1.75
dl-Phenylalanine, dms. works lb. 27.00 - 37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms. 200-lb. lots dlvd. E. lb. 3.45 - —
fib. dms., smaller lots, dlvd. E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .41 - —
dms., l.c.l., dlvd. E lb. .42 - —
tanks, dlvd. E lb. .38½- —
m-Phenylenediamine, dms., frt. alld. lb. 1.10 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, refd., dms., works lb. 1.42 - —
Tech., dms., works lb. 1.40 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms., l.c.l., same basis lb. .76½- —
Phenylethyl acetate, bots. lb. 1.30 - 1.60
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
dms., smaller lots works lb. 1.15 - 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 - 1.50
Standard, dms. lb. 1.10 - 1.60
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine, 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd. E lb. 1.80 - —
fib. dms., smaller lots, dlvd. E lb. 2.10 - —
Phenylethylphenyl acetate, bots. lb. 4.00 - 4.25
o-Phenylphenol, dms., l.c.l., works, lb. .48 - .50
p-Phenylphenol, bgs., c.l., works lb. .38½- —
bgs., l.c.l., works lb. .43 - —
Philippine copal gum, pale, chips, bgs. lb. .23¾- .26
nubs, bgs. lb. .33¼- .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .22¾- .25
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
CP, bots., works lb. 17.75 - —
Tech., fib. dms., works lb. 10.45 - —
Phloxin red toner (see Eosin red toner).
Phosgene, ret. cyls., works lb. .15½- —
Phosphate defluorinated (see under D).
Phosphate rock, Curacao, Atlantic ports, New Orleans ton. 48.00 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines, long-ton. 5.16 - —
68-70%, b.p.l., bulk, c.l., same basis long-ton. 5.56 - —
70-72%, b.p.l., bulk, c.l., same basis long-ton. 6.21 - —
Phosphate rock, Florida, run-of-mine, washed, dried, unground, 74-75%, b.p.l., bulk, c.l., same basis long-ton. 7.21 - —
76-77%, b.p.l., c.l., bulk, same basis long-ton. 8.21 - —
Above Florida prices are based on fuel oil at $2.37 per bbl. and labor at $1.52.
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys., l.c.l., same basis, 100 lbs. 7.25 - 7.75
tanks, t.w., works 100 lbs. 5.60 - —
80%, cbys., c.l., frt. equald 100 lbs. 7.85 - —
cbys., l.c.l., works 100 lbs. 8.10 - 9.35
tanks, t.w., works 100 lbs. 6.00 - —
NF, 85%, cbys., c.l., works, 100 lbs. 8.50 - —
cbys., l.c.l., works 100 lbs. 8.75 - 9.00
tanks, t.w., works 100 lbs. 6.65 - —
Phosphorus, 'amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
dms., l.c.l., works, frt. equald lb. .21½- —
tanks, works, frt. equald lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phosphorus pentasulfide, powd., dms., c.l., works lb. .13½- —
dms., l.c.l., works lb. .14½- .15½
solid, dms., c.l., works lb. .11½- —
dms., l.c.l., works lb. .12½- .13½
Phosphorus pentoxide, dms., c.l., works lb. .1395- .1450
dms., l.c.l., works lb. .1550- .1650
Phosphorus sesquisulfide, dms., c.l., c.l., works lb. .38 - —
dms., l.c.l., works lb. .39 - .40
Phosphorus trichloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .21 - —
bgs., l.c.l., same basis lb. .22 - —
tanks, same basis lb. .20½- —
Phthalimide, 97-98%, dms., frt. alld lb. .65 - —
Phthalocyanine blue, full strength, bbls., dlvd. E. of Rockies lb. 2.90 - —
Resinated, bbls., same basis lb. 2.75 - —
Water dispersable, bbls., same basis lb. 1.52 - —
Pythalocyanine blue prices 1c. higher W. of Rockies.
Phthalocyanine green toner, bbls., works lb. 3.35 - —
Phthalocyanine green toner, resinated, bbls. lb. 3.00 - —
Water dispersable, bbls. lb. 1.71 - —
Phthalocyanine green prices 1c. higher W. of Rockies.
Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. lb. 5.20 - —
a-Picoline, dms., c.l., works, frt. equald lb. .43 - .43½
dms., l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422
b,g-Picoline, 5°C. dms., c.l., works, lb. .32½- —
dms., l.c.l., works lb. .33 - —
g-Picoline, tanks, f.o.b., works lb. 1.50 - —
dms., t.l., same basis lb. 1.60 - —
Picric acid, NF, bbls. lb. .85 - —
Tech, bbls. lb. .44 - —
Pigment green B, kgs. lb. 1.45 - —
Pilocarpine hydrochloride, USP bots oz. 4.75 - 5.25
Pilocarpine nitrate, USP, bots., vials. oz. 4.65 - 4.75
Pimento, Jamaican, bgs. lb. .65 - —
Mexican, bgs. lb. .50 - —
Pimento berry oil, NF, dms. lb. 3.75 - 9.25
Pimento leaf oil, cns. lb. 1.90 - 2.40
Pine oil, dest.-dist., dms., l.c.l. works lb. .15 - —
dms., l.c.l. ex whse. New York lb. .173 - —
Steam-dist., dms. ex whse. New York lb. .185 - —
dms., dlvd. lb. .188 - —
Pineneedle oil, Siberian (see Abies Siberica oil)
Pinetar oil, coml., dms., c.l., works, lb. .0561- —
dms., l.c.l., works lb. .0634- —
dms., c.l., ex whse. New York, lb. .0745- —
tanks, works lb. .046 - —
Rectified, NF, dms., included, l.c.l., works, South lb. .40 - —
dms., incl. l.c.l., ex whse., New York lb. .41½- —
Refd., dms., incl., l.c.l., works lb. .35 - —
dms., incl. l.c.l., ex whse. New York lb. .36½- —
Pink root, bls. lb. 2.50 - —
Piperazine, dry, dms., t.l., frt. alld. lb. 1.85 - —
dms., l.c.l., same basis lb. 2.00 - —
Piperazine citrate, 36%, dms., t.l., frt. alld lb. 1.07 - —
dms., l.t.l., same basis lb. 1.09 - —
Piperazine hexahydrate, 44%, dms., frt. alld lb. .88 - —
dms., l.t.l., same basis lb. .90 - —
Piperidine, dist., 98% min., dms., frt. equald lb. 2.70 - —
Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.05

Pitches

Pitch quotations are listed individually. For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Plaster of Paris (see Gypsum).
Platinum metal, works lb. 51.50 - 55.00
Pleurisy root, bls. lb. .45 - .50
Podophyllum resin, NF, dms. lb. 15.60 - 16.10
Peke root, bls. lb. .19 - .22
Polymyxin, bulk, bots., 50 billion units or more 1,000,000 units. .52 - —
Polymyxin, bulk, bots., 25-50 billion units 1,000,000 units. .54 - —
bulk, bots., 1-25-billion units. 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms. 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works. lb. .44 - —
dms., smaller lots, works lb. .47 - .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works. lb. .42 - —
dms., 10,000-20,000-lb. lots, works lb. .44 - —
dms., smaller lots, works lb. .47 - .49
Pontianak copal gum, chips, bgs. lb. .26 - —
Nubs, bgs. lb. .37 - .40
Poppy seed, Argentine, bgs. lb. No stocks.
Dutch, bgs. lb. .21½- —
Danish, bgs. lb. .19½- —
Polish, bgs. lb. .33 - —
Turkish, bgs. lb. .19¾- —
Potash, caustic, liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
dms., l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
Flake, 88-92%, dms., c.l., same basis 100 lbs. 9.15 - —
dms., l.c.l., same basis 100 lbs. 10.20 - —
Solid, 88-92%, dms., c.l., works, 100 lbs. 8.70 - —
dms., l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms. lb. .31 - .36
Potassium bicarbonate, USP, gran. dms. lb. .22 - —
USP, powd., dms. lb. .24 - —
Potassium bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
bgs., l.c.l., works lb. .18½- .19¾
Potassium bichromate in dms., ¾c. higher.
Potassium bitartrate, dom., NF, gran. or powd., dms., c.l lb. .40 - —
dms., 5,000 lbs., 1 shipt. lb. .40½- —
dms., smaller lots lb. .41 - .43
Imp., NF, gran. or powd., kgs. lb. .30 - .34



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Potassium bromate, dms., 1,000-lb. lots or more, works..lb. .50 - —
dms., smaller lots, works.....lb. .52 - .62
Potassium bromide, USP, gran., bbls., kgs..lb. .39 - .40
Potassium carbonate, dom., NF, gran., bbls., dms..lb. .20 - —
Potassium carbonate, dom., tech., powd., bbls., dms. .....lb. .21 - .22
calcined, bgs., c.l., works..100 lbs. 8.50 - —
bgs., l.c.l., same basis.100 lbs. 9.53 - —
Potassium carbonate, hydrated, 83-85%, bgs., c.l., works. 100 lbs. 7.10 - —
bgs., l.c.l., works....100 lbs. 8.15 - —
Potassium chlorate, cryst., dms., c.l., works..lb. .12¼- —
dms., l.c.l., works.....lb. .13½- .14½
Powd., dms., c.l., works.....lb. .12¾- —
dms., l.c.l., works.....lb. .14 - .15
works..lb. .12¼- —
Potassium chlorate, NF, cryst., dms., 2,000 lbs. or more, works. lb. .16¾- —
gran., 25-lb. metal dms. ....lb. .36 - —
powd., dms., 2,000 lbs. or more, works..lb. .17¼- —
Potassium chloride, agricultural (see Potassium muriate)
Indust., 99.9% KCL, bulk, c.l., works..ton.29.00 - —
bgs., c.l., works .....ton.33.50 - —
99.3% KCL, bulk, c.l., works.ton.27.00 - —
bgs., c.l., works .....ton.31.50 - —
USP, cryst., dms. .....lb. .20 - .22
gran., dms. .....lb. .21 - .23
powd., dms. .....lb. .24 - .26
Potassium chromate, tech., bgs. ..lb. .50 - .50½
Potassium citrate, USP, gran., dms. lb. .43 - —
powd., dms. .....lb. .40½- .41½
Potassium cyanide, dms. 20,000-lb. lots or more, works..lb. .42½- —
Potassium cyanide, dms., 2,000-19,999-lb. lots, works..lb. .43 - —
dms., smaller lots, works .....lb. .44 - .44½
Potassium dichromate (see Potassium bichromate)
Potassium ferricyanide, dms., ton lots, works..lb. .50 - —
dms., smaller lots, works .....lb. .65 - —
Potassium ferrocyanide, dms., ton lots..lb. .24½- —
dms., smaller lots .....lb. .29 - —
Potassium fluoborate, fib. dms., c.l., works..lb. .30 - —
fib. dms., l.c.l., works .....lb. .31 - —
Potassium fluoride, dms., works..lb. .37 - .38
Potassium gluconate, dms. .....lb. 1.67 - —
Potassium guaiacol sulfonate, NF, dms..lb. 2.10 - 2.30
Potassium hydroxide, tech. (see Potash caustic).
Potassium hydroxide, USP, pellets, 100-lb. dms., 1 to 100-dm. lots..lb. .33½- .38
Potassium hypophosphite, NF, fib. dms., 1,000-lb. lots..lb. 1.38 - —
Potassium iodide, USP, cryst., or gran..lb. 1.40 - —
Potassium manure salt, 22% K_2O, bulk, c.l., works..unit-ton. .17 - .1765
Potassium metabisulfite, gran., dms. lb. .16 - —
Powd., dms. .....lb. .27 - —
Potassium muriate, standard, bulk, c.l., works..unit-ton. .32 - .34
bagged, 60% minimum K_2O, same basis..ton.24.10 -25.30
Gran., bulk, c.l., works..unit-ton. .32½- .34½
bagged, 60% minimum K_2O, same basis..ton.24.40 -25.60
Inside prices apply to material contracted for prior to July 1, 1958.
Outside prices apply to material contracted for after that date but also for delivery during the current month.
Potassium nitrate, NF, cryst., bbls., 20-ton lots..100 lbs.17.00 - —
bbls., smaller lots.....100 lbs.18.00 -19.00
gran., bgs., 20-ton lots..100 lbs. 9.50 - —
bgs., smaller lots.....100 lbs.11.00 -12.00
powd., bgs., 20-ton lots..100 lbs.10.50 - —
bgs., smaller lots.....100 lbs.12.00 -13.00
Potassium oxalate, neutral, tech., fine gran., bbls., dms..lb. .32 - .34
Potassium pentaborate, gran., dms., c.l., works..ton.219.50 - —
dms., ton lots, ex whse. ....ton.311.00 - —
dms., smaller lots, ex whse..ton.316.00 - —
Powdered potassium pentaborate $10 per ton higher.
Potassium perchlorate, dms., c.l., works..lb. .18½- —
dms., l.c.l., works .....lb. .19 - .20
Potassium permanganate, coml., kgs., works..lb. .26 - .29
USP, dms., works .....lb. .29½- .31
Potassium persulfate, dms., c.l., works..lb. .17½- —
dms., l.c.l., works .....lb. .18 - .21
Potassium pyrophosphate, tetrabasic, dms., works..lb. .15½- .18½
Potassium prussiate red (see Potassium ferrocyanide).
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works..100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works..100 lbs. 7.25 - 7.63
tanks, works .....100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works. 100 lbs. 5.95 - —
dms., l.c.l., 5 dm. lots or more works..100 lbs. 6.70 - —
tanks, works .....100 lbs. 5.60 - —
Potassium silicate, glass grade, bgs., c.l., works..100 lbs.17.30 -18.15
bgs., l.c.l., works .....100 lbs.17.80 - —
Soln., 29° Be, 1:2.5, dms., c.l., works..100 lbs. 4.95 - —
dms., l.c.l., 5-dm. lots or more, works..100 lbs. 5.70 - —
tanks, works .....100 lbs. 4.60 - —
Potassium silicofluoride, bgs., works..lb. .09½- .10
Potassium silicofluoride in drums, 0.4c. per lb. higher.
Potassium stannate, dms., frt. alld. E..lb. .750 - .823
Potassium sulfate, agricultural, bulk, c.l., works..unit-ton. .64½- .66½
Inside price applies to tonnage contracted for prior to July 1, 1958.
Outside price applies to tonnage contracted for after that date but also for delivery during the current month.
Potassium sulfate, NF VII, cryst., dms..lb. .31 - .33
Gran., dms. .....lb. .18½- —
Powd., dms. .....lb. .16 - .17
Potassium sulfocyanate, NF, cryst. (see Potassium thiocyanate).
Potassium thiocyanate, NF, cryst., dms., works..lb. .96 - .98
Tech., dms., works .....lb. .77 - .79

Potassium titanate, ctns., c.l., works. lb. .16¼- —
ctns., 5-ton lots, works.....lb. .16½- —
ctns., 1-ton lots or less, works..lb. .16¾- —
Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk, works, base price..ton.13.43 - —
bulk, works, July forward..ton.14.00 - —
Potassium-sodium tartrate, NF, gran. or powd., dms., f.o.b. works..lb. .42½- —
dms., 5,000-lb. lots, same basis..lb. .43 - —
dms., smaller lots, same basis..lb. .43½- .49
Potassium-titanium fluoride, fib. dms., works..lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works..lb. .50 - —
fib. dms., l.c.l., works.....lb. .52½- .55
Potato starch (see Starch, potato).
Pregnenolone, bots. .....gram. No prices
Pregnenolone acetate, bots. ...gram. No prices
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld..lb. 2.60 - —
dms., 100-500 lb. lots.....lb. 2.95 - 3.15
Progesterone, USP, bots. ....gram. No prices.
Progesterone acetate, bots. ...gram. No prices.
Propane, indust., tanks, group 3. gal. .05 - —
tanks, Baton Rouge.....gal. .05375- —
tanks, New York harbor..gal. .1005- —
(¼c. discount offered).
Propenyl guaethol, dms. .....lb.24.30 -27.00
Propionic acid, syn., pure, dms., c.l., works..lb. .23¼- —
dms., l.c.l., works.....lb. .24¼- —
tanks, works .....lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd. .....lb. .15¾- —
tanks, dlvd. .....lb. .12¼- —
n-Propyl alcohol, dms., c.l., dlvd..lb. .14 - —
dms., l.c.l., dlvd. .....lb. .15 - —
tanks, dlvd. .....lb. .11½- —

n-Propyl gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
n-Propyl-p-hydroxybenzoate, USP, dms lb 2.30 - 2.40
Propyl thiouracil, bots., 50 kilo lots or more..kilo.55.00 - —
bots., smaller lots .....kilo.55.10 -55.30
n-Propylamine, dms., c.l., dlvd. lb. 1.24 - —
dms., l.c.l., same basis.....lb. 1.25 - —
Propylene dichloride, consumers' dms., c.l., dlvd. E..lb. .0845- —
dms., l.c.l., same basis.....lb. .0950- —
tanks, same basis.....lb. .07 - —
Propylene dichloride prices in West 1c. higher, same basis.
Propylene glycol, indust., dms., c.l., dlvd. E..lb. .16 - —
dms., l.c.l., same basis.....lb. .17 - —
tanks, same basis .....lb. .13½- —
USP, dms., c.l., dlvd. E.....lb. .18 - —
dms., l.c.l., same basis.....lb. .19 - —
tanks, same basis .....lb. .15½- —
Propylene glycol methyl ether, dms., c.l., dlvd..lb. .20 - —
dms., l.c.l., same basis.....lb. .21 - —
tanks, same basis .....lb. .18½- —
Propylene oxide, dms., c.l., dlvd. E. lb. .18 - —
dms., l.c.l., dlvd. E.....lb. .19 - —
tanks, dlvd. E.....lb. .15½- —
Psyllium seed, black, bgs. .....lb. .32 - .34
Blonde, bgs. .....lb. .16 - .18
Husks, bgs. .....lb. .37 - —

Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- .04¼
bgs., smaller lots .....lb. .03⅞- —
Imp., Italian, silk-screen, coarse, bgs., ton lots..lb. .06½- —
fine, bgs., ton lots .....lb. .04 - —
sun dried, coarse, bgs..ton.60.00 - —
fine, bgs. .....ton.60.00 -70.00
Pumpkin seed, bgs. .....lb. .25 - .26
Pyrethrins, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .43 - —
Powd., 1.3% pyrethrins bbls., works..lb. .65 - —
Pyrethrum liquid, 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works..gal. 8.75 - 8.93
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal.41.75 -42.75
Pyrethrum oleoresin, dewaxed, 20%, dms., works..lb.10.00 - —
purif, 20% dms., works....lb.10.00 -10.10
Pyridine, denat., dms. c.l., works and frt. equald..gal. 2.77 - —
dms. l.c.l., same basis.....gal. 2.80 - —
Refd., 2° non-ret. dms., l.c.l., same basis..lb. .75 - —
Pyridoxine hydrochloride, bots., 500-gram lots or more..kilo.218.00 - —
Pyrites, Canadian, 48-50% S, mines, long-ton. 5.00 - 6.00
Pyrocatechol (see Catechol)
Pyrogallic acid, NF (see Pyrogallol).

From Heyden Newport

Chicago branch manager Joe Doroskin shows sales reps Ed Vogel and Ken Rice the PENTEK quality expected by you.

BEHIND THESE MEN...
PENTEK WAREHOUSING IN 18 CITIES

FOR PENTAERYTHRITOL DEPENDABILITY, count on Heyden Newport. Behind each sales representative is the right combination of dependable supply...consistent quality control...and experienced technical service.

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HEYDEN NEWPORT

Where tradition meets tomorrow in chemical progress

Pyrogallic Acid—Silver Nitrate

Pyrogallic acid, tech., bbls.	lb.	3.17	- 3.25
Pyrogallol, NF, 100 lb. dms.	lb.	3.50	- —
Pyroxylin, USP, bots.	lb.	9.50	- —

Q

Quassia chips	lb.	.17	- —
Quebracho extract, clarified, grd., 70% tannin, bgs., works	lb.	.16½	- .17
Clarified, liq., 35% tannin, bbls., works	lb.	.08¼	- .08½
Solid, 64% tannin, bgs., c.l., ex dock	lb.	.10871⁄2	—
Ordinary solid, 63% tannin bgs., c.l., same basis	lb.	.09922⁄2	—
Quercetin, fib. dms. kilo lots	kilo.	26.40	- —
Quercitron extract, cryst., No. 1, bbls., l.c.l.	lb.	.40	- —
Liq., No. 1, bbls., l.c.l.	lb.	.19	- —
Quicksilver (see Mercury metal)			
Quince seed, bgs.	lb.	1.15	- 1.50
Quinidine sulfate, USP, cns., 1,000-oz. lots	oz.	.74½	- .75
Quinine, NF, cns., 100-oz. lots	oz.	.54	- —
Quinine bisulfate, USP, cns., 100-oz. lots	oz.	.28	- .29
Quinine hydrochloride, cns., 1,000-oz. lots	oz.	.33	- —
Quinine sulfate, USP, cns., 1,000-oz. lots	oz.	.27½	- .29
Quinoline, dms., c.l., frt. equald	lb.	.50¾	- —
dms., l.c.l., same basis	lb.	.51¼	- —
tanks, same basis	lb.	.50	- —

R

R salt, paste, dms. frt. alld., 100% basis	lb.	.88	- —
Powd. frt. alld. 100% basis	lb.	.98	- —
Rapeseed oil, dms.	lb.	.16	- .16½
tanks	lb.	.14½	- —
Rare earth oxalate, 45-50%, bgs., works	lb.	1.00	- —
Rauwolfia serpentina root, powd., bbls., dms	lb.	1.00	- —
Red carmine, No. 40 (see Carmine).			
Red oil (see Oleic acid)			

Red Pigments

Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).			
Red, saunders, NF, powd., bbls	lb.	.35	- .40
Reserpine, cryst., bots.	gram.	1.25	- —
Resorcinol, tech grade, dms., c.l., works, frt. equald	lb.	.77½	- —
dms., l.c.l., same basis	lb.	.78½	- —
USP, cryst., dms., works	lb.	2.75	- —
powd., dms., works	lb.	2.95	- —
Resorcinol monoacetate, NF, dms.	lb.	2.50	- —
Rhatany root, bgs.	lb.	.15	- .16
Rhodamine red toner, molybdated, PMA, kgs	lb.	6.00	- —
Tungstated, PTMA, works, kgs	lb.	6.60	- —
Rhodinol, 5-lb. cans	lb.	43.00	-46.00
Synthetic	lb.	11.00	-16.00
Rhubarb root, India, whole, bgs	lb.	.30	- —
powd., bgs.	lb.	.38	- —
Riboflavin, USP, fib. dms., kilo or more dlvd	kilo.	40.00	- —
USP, readily soluble, bots., dlvd.	kilo.	130.00	- —
Riboflavin, 5-phosphate-sodium, fib. dms., kilo or more dlvd.	kilo.	107.50	- —
Rice bran oil, clarified, dms., l.c.l.	lb.	.15¼	- —
tanks, dlvd. E	lb.	.13½	- —
Rice starch (see Starch rice).			
Ricinoleic acid (see Castor oil acids split).			
Rochelle salt (see Potassium-sodium tartrate).			
Roofing pitch (see Coaltar pitch roofing).			
Rose oil, nat., Bulgarian, bots.	oz.	72.00	- —
Turkish, bots.	oz.	55.00	-58.00
Rosemary oil, Spanish, NF, cns., dms.	lb.	1.00	- 1.35
tech., cns., dms.	lb.	.50	- 1.20
Rosin, gum and wood (see Naval Stores in Protective Coatings market).			
Rotenone, fin. dms., works, unit-lb.		.12	- —
Resin, 25-45%, fib. dms., works, unit-lb.		.12	- —
Rottenstone, bgs., 5-ton lots, ex-whse	lb.	.03¾	- —
bgs., ton lots same basis	lb.	.04¼	- —
Rubber solvent, petroleum, tanks, Calif. ex tax, San Francisco	gal.	.178	- —
tanks, east coast, N. J., N. Y.	gal.	.19	- —
tanks, group 3	gal.	.13875	- —
Rue oil, bots.	lb.	2.75	- 3.00
Rutin, NF, fib. dms., 10 kilo lots	kilo.	16.50	- —
fib. dms., 5 kilo lots	kilo.	17.00	- —
fib. dms., 1 kilo	kilo.	18.00	- —
Ryanin, 100%, powd., bgs., c.l., works	lb.	.22	- —
bgs., l.c.l., same basis	lb.	.24	- —

S

S acid, bbls., works	lb.	3.25	- —
Sabadilla seed, activated, ground with lime, bbls	lb.	.42	- .44
Saccharin, calcium, fib. dms., 1,000-lb. lots, works	lb.	2.50	- —
USP, gran., soluble, dms., 1,000-lb. lots	lb.	1.60	- —
dms., smaller lots	lb.	1.70	- 1.80
Saccharin, USP, powd., soluble in-soluble, dms., 1,000-lb. lots	lb.	1.65	- —
dms., smaller lots	lb.	1.75	- 1.95
Safflower oil, dms., New York	lb.	.1785	- .1825
tanks, Atl. Coast	lb.	.1585	- —
Safrol, dms.	lb.	.80	- .95
Saffron, Mancha Superior, tins	lb.	34.00	- —
Sage, Dalmatian, bgs.	lb.	.36	- .40
Greek, cns.	lb.	.14	- —
Italian, cns.	lb.	.15	- —
Sage oil, clary, bots.	lb.	25.00	-32.00
Dalmatian, cns.	lb.	3.75	- 4.00
Spanish, cns.	lb.	1.20	- 1.45
Sage flour, raw bgs.	lb.	.07	- .07¼
Refd., bgs.	lb.	.09	- .09¼
Sal soda (see Soda sal).			
Salicylaldehyde, dms., c.l., t.l., f.o.b. plant, frt. equald	lb.	1.23	- —
dms., l.c.l., same basis	lb.	1.25	- —
Salicylamide, 160-lb. dms.	lb.	1.00	- 1.10
Salicylic acid, crude, fib. dms., c.l., t.l., frt. alld	lb.	.37¼	- —
fib. dms., l.c.l., frt. alld. on 100 lbs. or more	lb.	.38½	- —
Sublimed, tech., fib. dms., c.l., t.l., dlvd	lb.	.39¼	- —
fib. dms., l.c.l., dlvd.	lb.	.43½	- —
USP, cryst., 200-lb. fib. dms., 1,000-lbs. or more	lb.	.50½	- —
Salicylic acid, USP, 200-lb. fib. dms., less than 1,000 lbs.	lb.	.53½	- —
100-lb. fib. dms., 1,000-lbs. or more	lb.	.52½	- —
100-lb. fib. dms., less than 1,000 lbs.	lb.	.55½	- —
USP, powd., 100-lb. fib. dms., 1,000-lbs. or more	lb.	.57½	- —
100-lb. fib. dms., less than 1,000 lbs	lb.	.60½	- —
Salol, NF, gran., bbls., kgs.	lb.	1.20	- —
Powdered salol, 35c per lb. higher			
Salt, rock, paper bgs., c.l., 100 lbs.		1.09	- —
Salt, table vacuum, common, fine, paper bgs., c.l. 100 lbs.		1.34	- —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton	38.00	- —
Saltpeter (see Potassium nitrate)			
Sandalwood, E. Indian, chips, bgs.	lb.	.65	- .66
powd., fib. dms.	lb.	.75	- .76
Sandalwood oil, cns.	lb.	12.00	-14.00
Sardine oil, crude, tanks, Pac. coast.	lb.	No stocks	
Sassafras oil, artif., dms.	lb.	.58	- .75
Nat., dom., dms.	lb.	1.70	- 2.15
Savin oil, USP, cns.	lb.	7.50	- —
Savory oil, cns.	lb.	4.25	- —
Schaeffer's salt, paste, dms., frt. alld. 100% basis	lb.	.85	- —
Schaeffer's salt, powd., bgs., frt. alld., 100% basis	lb.	.95	- —
Scopolamine hydrobromide, USP, bots	oz.	13.00	-15.00
Sebacic acid, CP, dms., c.l., works.	lb.	.69½	- —
dms., l.c.l., works	lb.	.71½	- —
Purified, dms., c.l., works	lb.	.65½	- —
dms., l.c.l., works	lb.	.67½	- —
Seidlitz mixture, fib. dms., 5,000-lb. lots	lb.	.30½	- —
fib. dms., smaller lots	lb.	.31	- .33
Selenium, powd., 99½%, dms., dlvd.	lb.	7.00	- —
Senega root, bls.	lb.	2.10	- —
Senna leaves, Alexandria, whole and half, bls	lb.	.22	- —
siftings	lb.	.18	- —
Tinnevelly, No. 1, bls.	lb.	.22	- —
No. 2, bls.	lb.	.18	- —
No. 3, bls.	lb.	.14	- —
pods, bls.	lb.	.28	- —
powd., bbls., bxs.	lb.	.17	- —
Serpentaria root, bls.	lb.	6.50	- 7.00
Sesame oil, USP, dms.	lb.	.36	- .39
Sesame seed, Columbian, bgs.	lb.	.15½	- —
Lebanese, hulled, bgs.	lb.	.19	- —
Nicaraguan, hulled shipt., bgs	lb.	.24½	- —
nat., bgs.	lb.	.16	- —
Salvadorian, nat., bgs.	lb.	.16	- —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots	lb.	.46	- —
bbls., 1,500-lb. lots	lb.	.47	- —
kgs., 1,500-lb. lots	lb.	.48	- —
Bonedry shellac prices for less than 1,500-lb. lots 1c. per lb. higher for all packages.			
Shellac, bleached, refd., bgs., 1,500-lb. lots	lb.	.56	- —
bbls., 1,500-lb. lots	lb.	.57	- —
kgs., 1,500-lb. lots	lb.	.58	- —
Shellac, orange, lemon No. 1, bgs., 10-bg. lots	lb.	.36	- .39
lemon No. 2, bgs., 10-bg. lots	lb.	.33	- .37
superfine, bgs., 10-bg. lots	lb.	.32	- .34
Shellac in 1 to 10-bg. lots 1c. per lb. more.			
Shingle stain oil, tar distillate, dms., c.l., works	gal.	.37	- —
dms., l.c.l., works	gal.	.48	- —
tanks, works	gal.	.25	- —
Sienna pigment, burnt, paper bgs., c.l., works	lb.	.06½	- .18¼
paper bgs., l.c.l., works	lb.	.06¾	- .17¾
Raw, paper bgs., c.l., works	lb.	.06¾	- .16¾
paper bgs., l.c.l., works	lb.	.07	- .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works	ton	25.00	- —
bgs., l.c.l., works, ex whse.	ton	45.00	-55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works	ton	20.00	- —
bgs, l.c.l., works	ton	25.00	- —
99½%, 140 mesh, bgs., c.l., works	ton	15.00	- —
bgs., l.c.l., works	ton	20.00	- —
Silicon tetrachloride, tech., dms., c.l., works	lb.	.18	- —
dms., l.c.l., works	lb.	.22	- .30½
tanks, works	lb.	.17	- —
Silver bullion, ingots, cs.	Troy oz.	.89¼	- —
Silver cyanide, bots., 1,000-oz. lots,	oz.	.93½	- —
bots., 500-oz. lots	oz.	.94	- —
bots., 100-oz. lots	oz.	.95	- —
Silver nitrate, CP, cryst., bots., 3,000-oz. lots	oz.	.66¼	- —
dm., 1,000-oz. lots	oz.	.66¾	- —
bots., 500-oz. lots	oz.	.67¼	- —
bots., 250-oz. lots	oz.	.67¾	- —
USP granular silver nitrate 4c. per oz. higher.			

What Blockson Service Means

In Texas, New England, beyond the Rockies... you'll find Blockson customers within a stone's throw from some local phosphate source. Ask any of them why they favor Blockson and you get pretty much the same answer.

"Blockson ships us the phosphates when we want them."

A typical phone call to Blockson shows you what they mean:

An East Coast buyer phones collect to order a mixed car of phosphates, and includes Sodium Silicofluoride and Sodium Fluoride in the car.

"How soon can I get that car?"

"Hold the phone...We'll move the car for you tomorrow — usual routing. We'll wire the car number and trace it... You can look for it Thursday."

This is ordinary routine at Blockson, but it is extraordinary in two important particulars.

FIRST: *At our end, the entire sales, service and traffic operation was handled on the buyer's first and only phone call. There was no cross correspondence, no branch-to-home-office time lag.*

SECOND: *The buyer talked only to one man. This man has the job of taking the red tape out of sales, service and shipping.*

Incidentally, if the buyer had phoned to change, add to, or re-route his order, he would get the same spot service.

Such routine promptness in speeding your chemicals to you is almost without parallel in a company that does so large a volume as Blockson. That's because we use organization to clear the decks instead of cluttering them.

We can put this organization to work for you. Try us.

BLOCKSON IS A MAJOR PRODUCER OF:

- Sodium Tripolyphosphate
- Tetrasodium Pyrophosphate
- Trisodium Phosphate Crystalline • Monohydrate
- Trisodium Phosphate Chlorinated
- Disodium Phosphate Crystalline • Anhydrous
- Monosodium Phosphate Anhydrous • Monohydrate
- Sodium Polyphos*
- Sodium Acid Pyrophosphate
- Tetrapotassium Pyrophosphate
- Sodium Fluoride
- Sodium Silicofluoride
- Hygrade Fertilizer
- C-29 Sequestering Agent
- Teox 120 (Nonionic Surfactant)
- Hydrofluoric Acid
- Sulfuric Acid

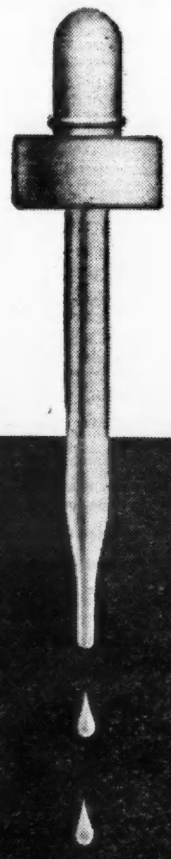
*Sodium Hexametaphosphate—Sodium Tetraphosphate

OLIN MATHIESON CHEMICAL CORPORATION — BLOCKSON

BLOCKSON CHEMICAL COMPANY • Joliet, Ill.

Division of Olin Mathieson Chemical Corporation

WAREHOUSE STOCKS AT ALL BLOCKSON DISTRIBUTORS



GOODMAN and GILMAN state:

"In many instances, however, the iodides are effective therapeutic agents and are of particular value in the treatment of *hyperthyroidism,* the *prophylaxis of goiter,* and as *expectorants.*"

— Goodman and Gilman, THE PHARMACOLOGICAL BASIS OF THERAPEUTICS, Second Edition (Page 827). Published by The Macmillan Company (1955).

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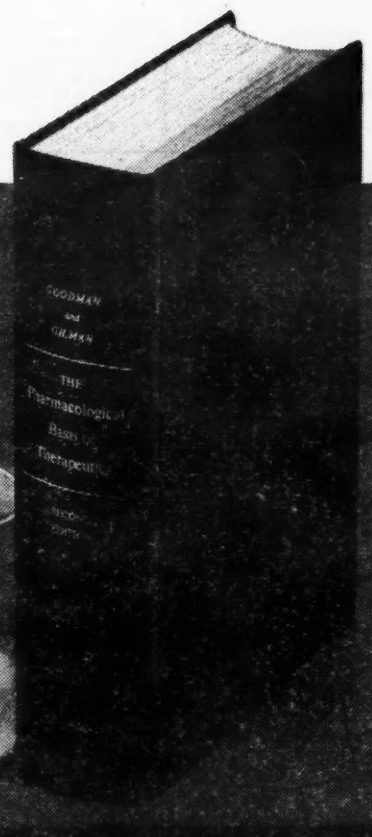


Mallinckrodt **Iodides**

. . . MANUFACTURED TO MAKE FORMULATING EASY

Manufacturing know-how and the use of modern equipment permits controlled crystal growth which is important in the manufacture of many iodides. Controlled crystal growth results in **uniform particle size**—a decided advantage in certain formulations.

Large lot production of Mallinckrodt iodides further improves and assures a higher degree of *uniformity.* In all Mallinckrodt iodides, the removal of heavy metals by special processes improves *stability.*

Potassium Iodide USP, Sodium Iodide USP, Thymol Iodide NF, Iodine USP Resublimed, Iodoform NF

FOR QUALITY IN YOUR FORMULATIONS

SPECIFY *Mallinckrodt*

IODIDES
BISMUTH COMPOUNDS
CALCIUM GLUCONATE
IRON SALTS
MAGNESIUM TRISILICATE
MERCURIALS
PHENOBARBITAL

Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.15 - —
Strong, NF, bots., dms., 1,000-oz. lots oz. 1.10 - —
Snakeroot oil, Canada, cns. ... lb.45.00 -60.00
Soapbark, crushed, bls. ..... lb. .35 - —
Powd., bls. ..... lb. .35 - —
Whole, bls. ..... lb. .30 - —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
paper bgs., l.c.l., stock pts., 100-lbs. 3.00 - 4.77
bulk, c.l., works ..... 100 lbs. 1.60 - —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.95 - 4.72
bulk, c.l., works ..... 100 lbs. 1.55 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 6.20 - —
Liq., 50%, sellers tanks, works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 - 3.00
73%, sellers' tanks, works, dry basis 100 lbs. 3.00 - —
73%, rayon type, sellers' tanks, works, dry basis. 100 lbs. 3.00 - 3.10
Solid, 76%, dms., c.l., works. 100 lbs. 4.80 - —
Soda, sal, conc., bgs., c.l., works., 100 lbs. 2.50 - —
bgs., smaller lots, works 100 lbs. 2.80 - —

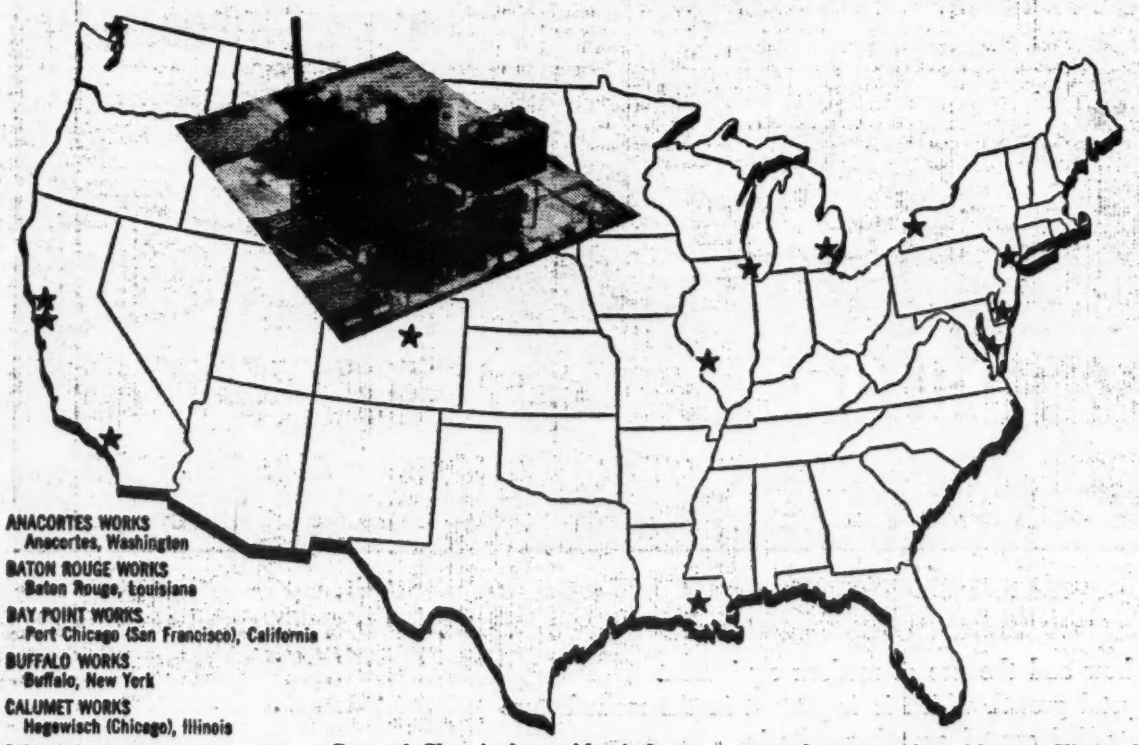
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
bgs., l.c.l., same basis lb. .16½- —
NF, 60%, gran., dms., c.l., works, lb. .15½- —
dms., l.c.l., wors lb. .17½- —
Sodium alginate, NF, white powd., dms., 300 lbs. or more lb. .83 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 2.70 - —
Sodium antimoniate, bgs., c.l., dlvd. E lb. .25½- —
bgs., l.c.l., dlvd. E lb. .27 - —
Sodium arsenate, 60% arsenic pentoxide, dealers, dms., ton or more, works lb. .20 - —
dms., less than ton lots, works lb. .26½- —
Sodium arsenite, 90% pink powder, 75% arsenious oxide, dealers, dms., ton lots or more, works lb. .17½- —
dms., less than ton lots, works lb. .18 - .19
Sodium ascorbate, dms., 25-50 kilo lots kilo.10.00 - —
dms., 10-kilo lots kilo.10.35 - —
dms., 5-kilo lots kilo.10.75 - —
dms., 1-kilo lots kilo.11.00 - —
bots., 500-gram, bots. kilo.11.50 - —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis lb. .39 - —

Sodium benzoate, USP, dms., c.l., t.l., frt. alld. lb. .38 - —
dms., ton lots, same basis lb. .43 - —
dms., 1,000-lb. lots, same basis. lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
bgs., l.c.l., works 100 lbs. 3.85 - —
USP, powd., bgs., c.l., works. 100 lbs. 2.55 - —
bgs., l.c.l., works 100 lbs. 3.45 - —
Sodium bichromate, gran., bgs., c.l. t.l., works lb. .13 - —
bgs., l.c.l., works lb. .13½- .14¾
Sodium bifluoride, bbls., c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis lb. .1990- —
Sodium bisulfate, bulk, c.l., works. 100 lbs. 2.00 - —
dms., c.l., frt. equald 100 lbs. 3.00 - 3.60
dms., l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Sodium bisulfite, anhyd., bgs. c.l., works 100 lbs. 5.00 - —
bgs., l.c.l., works 100 lbs. 5.45 - —
Soln., 35°, bbls., c.l., works 100 lbs. 1.70 - —
bbls., l.c.l., works 100 lbs. 2.20 - —
Sodium borate (see Borax)
Sodium bromide, USP, gran., dms., works lb. .40 - —
Sodium carbonate, cryst., monohydrated (see Soda, sal).
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs. 3.10 - —
bgs., l.c.l., works 100 lbs. 3.50 - —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 - —
dms., l.c.l., works lb. .09½- .10¼
Sodium chlorate in 100-lb. dms., only, ¼c. per lb. higher.
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs. lb. .05 - —

Sodium chlorite, tech., dms., c.l., works lb. .58 - —
dms., 20-dm. lots or more, works. lb. .66 - —
dms., smaller lots, works lb. .70 - .73
Sodium chloroacetate, tech., dms., c.l., works lb. .27 - —
dms., l.c.l., works lb. .28 - —
Sodium chromate, anhyd., fib. dms., c.l., t.l., works lb. .14¾- —
fib. dms., l.c.l., works lb. .15¼- .16¼
Sodium chromate, tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190
Sodium citrate, anhyd., dms. ... lb. .62 - —
NF, VIII, gran., dms. ... lb. .26½- .27½
USP XIV, gran., dms. ... lb. .29½- .30½
Sodium citrate, USP powd. prices ½c. higher.
Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 - —
dms., smaller lots, works lb. .90 - 1.10
Sodium cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .193 - —
dms., over 1,000-lb. lots lb. .203 - —
dms., 100-lb. to 1,000-lb. lots lb. .213 - —
Gran. sodium cyanide 1c. higher.
Sodium cyclamate, 100-lb. dms lb. 1.95 - —
Sodium diacetate, 33-35% acidity, 250-lb. dms., works lb. .15 - —
250-lb. dms., l.c.l., works lb. .15¾- —
Anhyd., dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .18¾- —
Sodium dimethyl dithiocarbamate, 40% soln., dms., c.l., t.l., frt. alld., 100% basis lb. .43 - —
dms., l.c.l., t.l.l., same basis lb. .47 - .52
tanks, same basis lb. .38 - —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs., smaller lots lb. .14 - —
Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1430- —
Sodium formate, bgs., c.l., works. 100 lbs. 7.00 - —
bgs., l.c.l., works 100 lbs. 8.65 - —
Sodium gentisate, 100-lb. fib. dms. lb. 5.50 - —
Sodium gluconate, vefd., dms. lb. .24 - —
Tech., dms., bgs. lb. .37 - .39
Sodium hydride, powd., dms., works. lb. 1.80 - 2.75
Sodium hydrosulfide (see Sodium sulfhydrate).
Sodium hydrosulfite, dms., c.l., frt. alld lb. .33¾- —
dms., l.c.l., frt. alld. lb. .34¾- —
Sodium hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots. lb. .33½- .39
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .97 - —
Sodium hyposulfite, anhyd., photo grade, bgs., c.l., works. 100 lbs. 7.50 - 8.05
bgs., l.c.l., works lb. 7.80 - 8.45
Sodium hyposulfite, tech. bgs., c.l., works 100 lbs. 7.25 - —
bgs., l.c.l. works 100 lbs. 7.60 - —
Sodium hyposulfite hexahydrate, pea., cryst., bgs., c.l., works 100 lbs. 5.15 - —
bgs., l.c.l. works 100 lbs. 5.55 - —
Sodium hyposulfite hexahydrate, photo grade, bgs., c.l., works. 100 lbs. 7.75 - —
bgs., l.c.l., works 100 lbs. 8.05 - —
Sodium hyposulfite pentahydrate, tech., bgs., c.l., works. 100 lbs. 4.65 - 5.15
bgs., l.c.l., works 100 lbs. 4.90 - 5.55
Sodium iodide, USP, 300-lb. dm lb. 1.98 - —
Sodium lactate, edible, 60%, chys., dms., works lb. .26½- —
Sodium lauryl sulfate, dms., c.l., dlvd lb. .19 - —
dms., l.c.l., dlvd. lb. .20 - —
tanks, dlvd. lb. .18 - —
Sodium metabisulfite (see Sodium bisulfite).
Sodium, lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 - 6.50
l.c.l., bgs., works 100 lbs. 4.40 - 7.00
Sodium metaborate octahydrate, gran., bgs., c.l. works ton.92.00 - —
bgs., ton lots, ex whse. ton.150.00 - —
bgs., smaller lots, ex whse ton.155.00 - —
Sodium metaborate, tetrahydrate, bgs., c.l. works ton.260.00 - —
bgs., ton lots, ex whse. ton.268.50 - —
bgs., smaller lots, ex whse ton.273.50 - —
Sodium, metallic, bricks, c.l. works. lb. .19½- —
Fused, 16,000-lb. lots or more, works lb. .19 - —
tanks, works lb. .17 - —
Sodium metalinate, bbls., frt. alld. lb. .82 - —
Sodium metasilicate, anhyd., bgs., c.l., works. 100 lbs. 5.70 - —
bgs., 6,000-19,900 lb. lots, works. 100 lbs. 6.05 - —
dms., c.l., works 100 lbs. 6.20 - —
dms., l.c.l., works 100 lbs. 6.55 - —
gran., fib. dms. lb. .17½- .18
Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.45 - —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., c.l., works 100 lbs. 4.95 - —
dms., l.c.l., works 100 lbs. 5.30 - 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .96 - 1.11
Cryst., dms., works, frt. alld. lb. .80 - —
Sodium monoglutamate (see Monosodium glutamate).
Sodium monohydrate (see Sodium carbonate, monohydrated).
Sodium naphthionate, bbls. lb. .70 - —
Sodium nitrate, dom., crude, bgs., c.l., works. ton.44.50 - —
bulk, c.l., works ton.40.50 - —
Imp., 100-lb. bgs., c.l., Atl., Gulf, Pac., whse. ton.44.50 - —
bulk, c.l., same basis ton.40.50 - —
Sodium nitrite, USP, bbls., c.l., works, frt. equald. 100 lbs. 9.00 - —
bbls., l.c.l., same basis 100 lbs.11.00 - —
Sodium orthosilicate, cone., dms., c.l., works. 100 lbs. 6.70 - —
dms., l.c.l., works 100 lbs. 7.05 - 7.60
Sodium orthosilicate, hydrated, flake, bbls., c.l. works. 100 lbs. 8.65 - —
bbls, l.c.l., works 100 lbs. 7.60 - 7.90
Sodium oxalate, 98%, bgs., works. 100 lbs.12.35 - —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate).
Sodium para-aminosalicylate (see Sodium p-aminosalicylate).
Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .26 - —
bgs., l.c.l., same basis lb. .27½- .34
Pellets, bgs., c.l., same basis lb. .26 - —
bgs., l.c.l., same basis lb. .27½- .34
Sodium pentachlorophenate, powd., bgs., dms., c.l., same basis lb. .25 - —
bgs., dms., l.c.l., same basis lb. .26½- .33
Sodium pentachlorophenate, 20,000 lbs., min, truckloads, ¼c. per lb. over earlot prices.
Sodium pentobarbital, USP, dms., 100 lbs. or more lb. 6.00 - —
Sodium perborate, NF, tech., bgs., c.l., works. lb. .19 - —
bgs., l.c.l., works lb. .21 - —

An important message to every sulfuric user interested in spent acid recovery...

12 GENERAL CHEMICAL Plants are equipped to handle spent acid for you



ANACORTES WORKS
Anacortes, Washington
BATON ROUGE WORKS
Baton Rouge, Louisiana
BAY POINT WORKS
Port Chicago (San Francisco), California
BUFFALO WORKS
Buffalo, New York
CALUMET WORKS
Hegewisch (Chicago), Illinois
DELAWARE WORKS
North Claymont, Delaware
DENVER WORKS
Denver, Colorado
DETROIT WORKS
River Rouge, Michigan
EAST ST. LOUIS WORKS
East St. Louis, Illinois
ELIZABETH WORKS
Elizabeth, New Jersey
EL SEGUNDO WORKS
El Segundo (Los Angeles), California
RICHMOND WORKS
Richmond (San Francisco), California

General Chemical provides industry with sulfuric acid from 18 producing points, located in major centers of commerce from coast to coast. Of these, 12 are equipped to handle spent acid—providing unmatched experience, service and facilities to customers interested in spent acid recovery.

Relatively high strength, impure sulfuric presents many problems of handling and disposal. With General's help you may be able to turn this costly nuisance into an economic asset.

Whether we can help you or not depends on a number of factors: The acid strength . . . The nature and amounts of contaminants . . . The tonnage available . . . The distance of your location from our nearest plant. Generally, spent acids containing 70%-80% sulfuric acid, or higher, can be reclaimed if they do not contain impurities harmful to the equipment.

Our experience in solving spent acid problems of every kind is at your service. For further information, write or call your nearest General Chemical office.

Allied Chemical

GENERAL CHEMICAL DIVISION
40 Rector Street, New York 6, N. Y.

Offices: Albany • Atlanta • Baltimore • Birmingham • Boston • Bridgeport • Buffalo • Charlotte • Chicago Cleveland (Miss.) • Cleveland (Ohio) • Denver • Detroit • Houston • Jacksonville • Kalamazoo • Los Angeles Milwaukee • Minneapolis • New York • Philadelphia • Pittsburgh • Portland (Ore.) • Providence San Francisco • St. Louis • Seattle • Kennewick, Vancouver and Yakima (Wash.)

Sodium peroxide, dms., c.l., t.l., dlvd. E. of Miss. lb. .20¼ - —
dms., l.c.l., same basis lb. .21 - .21¼
Sodium phenobarbital, USP, 100-lb. dms. lb. 3.75 - —
Sodium phenolsulfonate, USP, IX, gran., dms. lb. .50 - .51
NF, powd., dms. lb. .53 - .54
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 7.95 - —
bgs., l.c.l., same basis 100 lbs. 8.35 - 9.40
duohydrate, bgs., c.l., frt. equald. 100 lbs. 7.60 - —
bgs., l.c.l., same basis 100 lbs. 8.10 - —
USP, dried, powd., bgs., dms., works lb. .19 - .20¼
Sodium phosphate, monobasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.00 - —
bgs., l.c.l., same basis 100 lbs. 9.40 -10.00
Sodium phosphate, tribasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.05 - —
bgs., l.c.l. frt. equald. 100 lbs. 9.45 -10.05
Cryst., bgs., c.l., t.l., frt. equald. 100 lbs. 4.60 - —
bgs., l.c.l., frt. equald. 100 lbs. 5.00 - 5.75
Sodium phosphate in dms. 60c to 80c, higher than bgs.
Sodium prussiate, yellow (see Sodium ferrocyanide).
Sodium pyrophosphate acid, bgs., c.l., works, frt. equald. 100 lbs. 11.10 - —
bgs., l.c.l., same basis 100 lbs. 11.85 -12.35
Sodium pyrophosphate, ferric, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l., works lb. .37 - .39
Sodium pyrophosphate, tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.81 - —
bgs., l.c.l., same basis 100 lbs. 9.21 - 9.71
Sodium salicylate, USP, dms., 1,000-lbs. or more lb. .78½ - —
dms., less than 1,000 lbs dms.lb. .81½ - —
Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 - —
bgs., l.c.l., dlvd. zone 1 100 lbs. 4.10 - 4.35
dlvd. zone 2 100 lbs. 4.35 - 4.60
dlvd. zone 3 100 lbs. 4.75 - 4.90
dlvd. zone 4 100 lbs. 5.35 - 5.60

Sales zones are: (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss., south of 31°; Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98°; Ga.; Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark. W. of 98°, Kan., Neb. W. of 98° N. D., Okla., S. D., Tex., W of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Sodium sesquisilicate, anhyd., bgs., c.l., t.l., works 100 lbs. 5.70 - —
dms., c.l., t.l., works 100 lbs. 6.20 - —
hydrated, bgs., c.l., works 100 lbs. 5.00 - —
bgs., 6,000-19,900 lb. lots, works. 100 lbs. 5.35 - —
Sodium sesquisilicate, hydrated, dms., c.l., works 100 lbs. 5.50 - —
dms., 6,000-19,900 lb. lots, works. 100 lbs. 5.85 - —
Sodium silicate, liq., 40° Be, turbid, 1:3.2, dms., c.l., works. 100 lbs. 1.35 - —
dms., l.c.l., works 100 lbs. 1.90 - 2.40
tanks, works 100 lbs. 1.20 - —
47° Be., turbid, 1:2.9, dms., c.l., works 100 lbs. 2.25 - —
dms., l.c.l., works 100 lbs. 2.60 - 3.45
tanks, works 100 lbs. 1.90 - —
52° Be. turbid, 1:2.4, dms., c.l., works 100 lbs. 2.65 - —
dms., l.c.l., works 100 lbs. 3.00 - 3.50
tanks, works 100 lbs. 2.30 - —
Solid, 1:3.2, bgs., works ton.67.50 - —
Sodium silicofluoride, bgs., c.l., works lb. .065 - —
bgs., l.c.l., works lb. .069 - —
Sodium silicofluoride in dms., 0.4c. per lb. higher.
Sodium stannate, dms., works, frt. alld. E lb. .623 - .638
Sodium sulfa drugs (see Sulfa name).
Sodium sulfanilate, bbls., works lb. .22 - —
Sodium sulfate, NF VII, dried, powd., dms lb. .22½ - —
Tech., anhyd., bgs., c.l., dlvd. E ton.34.00 - —
detergent, rayon grade, bgs., c.l., works ton.36.00 - —
bulk, c.l., works ton.32.00 - —
USP, cryst., fib. dms. lb. .17½ - .18
Sodium sulfhydrate, flake, 70-72%, dms., c.l., works frt. equald. lb. .07¼ - —
dms., l.c.l., same basis lb. .08¼ - —
Liq., 40-44%, tanks, works, 100% basis ton.130.00 - —
Sodium sulfide, flake, dms., c.l., works, E., frt. equald lb. .06 - —
dms., l.c.l., same basis lb. .07 - —
fused, bbls., c.l., works, E., frt. equald lb. .05½ - —
bbls., l.c.l., same basis lb. .06½ - —
Sodium sulfite, anhyd., bgs., c.l., works 100 lbs. 7.55 - —
bgs., l.c.l., same basis 100 lbs. 7.95 - —
Tech. bgs., c.l., works 100 lbs. 3.50 - —
bgs., l.l., same basis 100 lbs. 4.00 - —
Sodium sulfocyanide, CP (see Sodium thiocyanate).
Sodium tetraborate (see Borax)
Sodium tetrasulfide, liq., 40% dms., c.l., works, frt. equald lb. .04½ - —
dms., l.c.l., same basis lb. .05½ - —
Sodium thiocyanate, CP, dms lb. .55 - .65
Tech., anhyd., dms., 1 ton lots or more, works lb. .317 - —
dms., less than ton lots, works lb. .327 - —
Sodium thiosulfate, NF, cryst. bbls. lb. .13½ - —
Sodium thiosulfate, tech. (see Sodium hyposulfite).
Sodium titanate, ctns., c.l., works. lb. .14¼ - —
ctns., 5-ton lots, works lb. .14½ - —
ctns., 1-ton or less, works lb. .14¾ - —
Sodium trichloroacetate, 94%, 100-lb. dms., c.l., frt. alld. E. lb. .35 - —
50-lb. dms., c.l., frt. alld. E lb. .35½ - —
10-lb. cns., c.l., frt. alld. E. lb. .42 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¼c. per pound higher.
Sodium tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.16 - —
bgs., l.c.l., same basis 100 lbs. 8.56 - 9.06
Sodium trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.93 - —
bgs., l.c.l., works 100 lbs. 9.70 -13.13
dms., c.l., works 100 lbs. 9.45 - —
dms., l.c.l., works 100 lbs. 10.20 -10.60
Sodium tungstate, tech., kgs. dlvd. E lb. 1.18 Nom.
Sodium-ammonium phosphate, purif., cryst., dms., works lb. .52 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
dms., l.c.l., same basis lb. .21½ - —
Sodium-zirconyl sulfate, fib. dms., 1,000-lb. lots or more works lb. .28 - —
fib., dms., smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt. equald gal. .30 - .35½
Solvent naphtha, petroleum, aromatic 312°-365°F. b.r., 17.2°C. m.a.p., tanks, New Jersey gal. .31 - —
313°-350°F. b.r., 17.2°C. m.a.p., tanks, Texas City gal. .35 - —
Solvent naphtha, petroleum, aromatic, 342°-351°F. b.r., 15°C. m.a.p., tanks, Baytown, Texas gal. .29 - —
324°-349°F, b.r., 16.5°C, m.a.p., tanks, Houston gal. .32 - —
322°-350°F, b.r., 17.2°C, m.a.p., tanks, Baytown, Tex. gal. .29 - —
352°-413°F, b.r., 17.5°C, m.a.p., tanks, Houston gal. .32 - —
365°-404°F, b.r., 19°C, m.a.p., tanks, New Jersey gal. .32 - —
367°-421°F, b.r., 20°C, m.a.p., tanks, Baytown, Tex. gal. .30 - —
Solvent naphtha, petroleum, partial aromatic, 203°-282°F, b.r., 36°C, m.a.p., tanks, New Jersey gal. .24 - —
211°-377°F, b.r., 25.6°C, m.a.p., tanks, New York, New Jersey gal. .26 - —
221°-378°F, b.r., 34.8°C, m.a.p., tanks, Houston gal. .20 - —
362°-323°F, b.r., 41.6°C, m.a.p., tanks, Houston gal. .23 - —
337°-403°F, b.r., 34°C, m.a.p., tanks, Houston gal. .26 - —
358°-491°F, b.r., 24.4°C, m.a.p., tanks, New Jersey gal. .38 - —
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .35 - —
fib. dms., smaller lots, works lb. .38 - .40
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .34 - —
fib. dms., 10,000 to 20-000-lb. lots, works lb. .36 - —
fib. dms., smaller lots, works lb. .39 - .41
Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
dms., 1 to 5-ton lots, works. lb. .25 - .26
Powd., dms., c.l., works lb. .36 - —
dms., 1 to 5-ton lots, works. lb. .38 - .39
Soln., coml., aqueous, dms., c.l., works lb. .24¼ - —
dms., ton lots, works lb. .25 - —
dms., smaller lots, works lb. .25¼ - —
tanks, works lb. .23¼ - —
NF, reg., 70% aqueous, dms., c.l., works lb. .16 - —
dms., ton lots, works lb. .16¾ - —
dms., smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soya protein, chemically isolated, old process, bgs., c.l., works. lb. .22 - —
bgs., l.c.l., works lb. .23½ - —
Chemically isolated, new process, bgs., c.l., works lb. .19 - —
bgs., l.c.l., works lb. .19½ - —
Soybean meal, 44%, bulk, Decatur, ton.60.00 -61.00
Soybean oil, crude, tanks, Decatur, lb. .09¾ - —
Foots, soapstock, acid 95%, tanks, N. Y. lb. .04⅜ - —
Soybean oil, refd., alkali, dms lb. .1418- .1435
tanks lb. .1218- —
Clarified, dms. lb. .1388- .1400
tanks lb. .1168- —
Salad, dms. lb. .1393- .1415
tanks lb. .1193- —
Soybean oil acids, dbl. dist., dms., lb. .18 - .20¼
tanks lb. .15½ - —
S. D., dms lb. .16¾ - .19¼
tanks lb. .14¼ - —
Soybean pitch, dms., works lb. .05 - .05¼
Sparteine sulfate cns. oz. .80 - .90
Spearmint leaves, dom., bls. lb. .75 - —
Spearmint oil, NF, dms lb. 6.60 - 7.60
Sperm oil, bleached, winter, 45° dms lb. .1625- .17
tanks lb. .1450- —
Nat., winter, 45°, dms. lb. .1525- .16
tanks lb. .1350- —
Spermaceti wax, blocks, cs. lb. .31 - .34
Cakes, cs. lb. .32 - .34
Spruce extract, liq., reg. tanks, works lb. .01¾ - —
Powd., super, bgs., c.l., works. lb. .05¼ - —
bgs., l.c.l., works lb. .05½ - —
Spruce oil, cns., dms. lb. 2.10 - 3.55
Squill, white, bls lb. .16 - .18
powd., bbls., bxs lb. .17 - .20
St. John's bread, edible, bls lb. .14 - .16
Stannic chloride, anhyd., dms., works lb. .785 - .793
Stannic oxide, dms., dlvd. lb. 1.04½ - 1.05¼
Stannous chloride, anhyd. dms., works lb. .939 - 1.483

Thorium Hardener Extends Magnesium's Service Temperature Range to 750° F.

Magnesium-thorium alloys withstand heat so well that they are being used for sheet, extrusions and castings in many of today's missiles. Continuing research indicates that they will have greatly expanded uses where service temperature is a factor.

Davison is the only domestic producer of magnesium-thorium hardener. It is manufactured at Erwin, Tennessee, by a unique process which eliminates slag and oxide inclusions. Thorium hardener, supplied in ingots, is easily added to magnesium to produce the alloy desired.

Magnesium-thorium hardener is available in the following forms:

25 lb. Notched Ingots
100-800 lb. Round Ingots

Davison also offers a disposal service for scrap thorium products.

If you are interested in magnesium for missiles, aircraft, or for other uses where temperature is a factor, it will pay you to investigate Davison's magnesium-thorium hardener. Direct your inquiry to the address below.

W.R. GRACE & CO.
DAVISON CHEMICAL DIVISION
ERWIN, TENNESSEE

Stannous Chloride—Tankage

Stannous chloride, hydrous, cryst., dms., works lb. .85½- .86½
Stannous sulfate, dms., works .. lb. 1.044 - 1.064
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.38 - —
paper bgs., l.c.l. ..... 100 lbs. 7.53 - —
Powd., paper bgs., c.l. .. 100 lbs. 7.50 - —
paper bgs., l.c.l. ..... 100 lbs. 7.65 - —
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.
Starch, potato, dom., Idaho, bgs., c.l., works lb. .0580- —
Maine, bgs., c.l., works lb. .06 - —
bgs., l.c.l., ex whse, New York, lb. .08¼- .09¼
Starch, rice, bgs., ex whse. .... lb. .14 - .15
Starch, wheat, bgs. ..... lb. .08½- .09
Sugar root (see Helonias root).
Sugargrass root (see Aletris root).
Sweetsacre seed, bgs. ..... lb. .60 - .61
Stearic acid, dbl., pressed, bgs lb. .16¾- .19¼
Single-pressed, bgs. ..... lb. .16¼- .18¾
Triple-pressed, bgs. ..... lb. .18½- .21
Stearine, oleo (see Oleostearine).
Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, western Pennsylvania, gal. .16 - —
tanks, group 3 ..... gal. .12875- —
tankwagon, Boston ..... gal. .20 - —
Chicago ..... gal. .299 - —
Cleveland ..... gal. .23½- —
Los Angeles, ex tax ..... gal. .199 - —

Stoddard solvent, petroleum, tankwagon, Newark ..... gal. .19 - —
New York ..... gal. .19 - —
Philadelphia ..... gal. .19½- —
Pittsburgh ..... gal. .19 - —
Stramonium leaves, bgs ..... lb. .16 - .19
Streptomycin hydrochloride, bulk, gram. .07 - —
Streptomycin sulfate, bulk ... gram. .07 - —
Strontium bromide, NF, cryst., 150-lb. fib. dms lb. .84 - —
Strontium carbonate, pure, dms., 5-ton lots or more, works. lb. .35 - —
dms., 1-ton lots, works .... lb. .37 - —
Tech., dms., works ..... lb. .19 - —
Strontium chromate, fib. dms., works. lb. .49 - —
Strontium iodide, jars, 25-lb. lots. lb. 3.57 - —
Strontium nitrate, bgs., c.l., works. 100 lbs. 11.00 - —
bgs., l.c.l., works ..... 100 lbs. 12.00 - —
Strontium salicylate, NF, dms. .. lb. 1.88 - —
Strontium sulfate, air floated, 90%, 325 mesh, bgs., works ton. 56.70 -66.15
Strophanthin G (see Ouabain, USP).
Strophanthin K, bots. ..... oz. 25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax gum, USP, cs. ..... lb. 3.00 Nom.
Styrene monomer, polymer grade, 99.6%, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., same basis .... lb. .19 - —
tanks, same basis ..... lb. .14½- —

Styrene, monomer, tech., 99.2%, dms., c.l. lb. .1517- —
dms., l.c.l., same basis lb. .1717- —
tanks, bulk, same basis lb. .1267- —
Above prices are escalated for each calendar quarter on the basis of cost of crude oil at the well, cost of petroleum refining labor, and prices in the three major sections of the Wholesale Commodity Price Index.
Styrolyl acetate, bots. ..... lb. 1.25 - 1.45
Succinic acid, purif., cryst., bbls., works lb. .62 - .75
Sucrose, refd., white, bgs., refy. E. lb. .0935- —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs., l.c.l., works lb. .84 - —
Sugar (see Sucrose).
Sugar cane wax, dom., refd., slabs, 80-lb. ctns., works lb. .65 - .75
80-lb. ctns., spot ..... lb. .67¼- .72¼
Sulfabenzamide, dms. ..... kilo. 8.80 - 9.90
Sulfabenzamide-sodium, dms. .. kilo. 9.00 -10.10
Sulfacetamide, USP, fib. dms. . kilo. 7.70 - 8.80
Sulfacetamide-sodium, USP, fib. dms kilo. 8.15 - 9.25
Sulfadiazine, USP, microcrystals, dms kilo. 23.35 -24.45
powd., dms. ..... kilo. 22.60 -23.70
Sulfadiazine-sodium, USP, dms kilo. 24.80 -25.90
Sulfaguanidine, NF X, dms. .. kilo. 5.50 - 6.60
Sulfamerazine, USP, microcrystals, dms kilo. 23.50 -24.60
Sulfamerazine-sodium, USP, powd., dms kilo. 24.80 -25.90
Sulfamethazine, microcrystals, USP XV, dms kilo. 19.65 -20.75
Powd., dms. ..... kilo. 18.75 -19.85
Sulfamic acid, cryst., dms., c.l., t.l., works 100 lbs. 16.00 - —
dms., l.c.l., l.t.l., works 100 lbs. 17.50 -18.50
100 lbs. or more lb. 6.00 - —
Gran., dms., c.l., t.l., works, 100 lbs. 14.75 - —
dms., l.c.l., l.t.l., works 100 lbs. 16.25 -17.25

Sulfanilamide NF X, 30-80 mesh, dms kilo. 3.05 - 3.50
NF X, microcrystals, dms. ... kilo. 3.79 - 4.20
NF X, powd., dms. ..... kilo. 2.85 - 3.30
Sulfanilamide quinoxaline, veterinary, dms kilo. 14.12 -14.83
Sulfanic acid, tech., dms. c.l., frt. alld lb. .21 - —
dms., l.c.l., frt. alld. ..... lb. .23 - —
Sulfapyridine USP XV, powd., bots., tins kilo. 15.45 -16.55
Sulfapyridine-sodium, monohydrate, dms kilo. 16.55 -17.65
Sulfathiazole, NF X, microcrystals, dms kilo. 5.50 - 5.35
powd., dms. ..... kilo. 6.25 - 6.60
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 - —
Sulfur, coml., flour, bgs., mines. 100 lbs. 2.45 - —
bbls., mines ..... 100 lbs. 3.30 - —
lump, bgs., mines ..... 100 lbs. 2.35 - —
bbls., mines ..... 100 lbs. 2.90 - —
Sulfur, crude, dom., bright, bulk, f.o.b. cars, mines long-ton. 23.50 - —
Export, f.o.b. vessels Gulf ports long-ton. 25.00 - —
US and Canada, f.o.b. vessels Gulf ports, long-ton. 25.00 - —
Domestic dark sulfur prices are $1 per long-ton lower.
Sulfur, crude, bulk, imp., Mexican, filtered, f.o.b., vessel, Coatzacoalcos long-ton. 24.00 - —
Mexican dark sulfur price is $1 per long-ton lower.
Sulfur, refd. flowers, NF, bgs., mines 100 lbs. 5.15 - —
bbls., mines ..... 100 lbs. 6.50 - —
flour, light, bgs., mines 100 lbs. 4.75 - —
bbls., mines ..... 100 lbs. 5.75 - —
lump bgs., mines ..... 100 lbs. 4.45 - —
rolls, bgs., mines ..... 100 lbs. 5.00 - —
bbls., mines ..... 100 lbs. 5.75 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur, rubbermakers, coml., reg., bgs., mines 100 lbs. 2.55 - —
bbls., mines ..... 100 lbs. 3.80 - —
98-100%, passing through 325 mesh, bgs., mines. 100 lbs. 2.65 - —
bbls., mines ..... 100 lbs. 3.90 - —
refd., bgs., mines ..... 100 lbs. 4.40 - —
bbls., mines ..... 100 lbs. 5.55 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.85 - —
bbls., mines ..... 100 lbs. 4.10 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald lb. .04½- —
ret. dms., l.c.l., same basis .... lb. .05¼- —
tanks, same basis ..... lb. .04 - —
Sulfur dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi-unit cars, works .... lb. .0535- —
tanks, works ..... lb. .045 - —
Refrigeration, 150-lb. cyls., dlvd. lb. .33 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .04½- —
dms., l.c.l., same basis ..... lb. .05¼- —
tanks, same basis ..... lb. .04 - —
Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
cbys., l.c.l., works ..... 100 lbs. 2.30 - —
tanks, works ..... ton. 18.60 - —
Sulfuric acid, 66° Be, cbys., c.l., works 100 lbs. 2.25 - —
cbys., l.c.l., works ..... 100 lbs. 2.55 - 3.35
tanks, works ..... ton. 22.35 - —
98%, tanks, works ..... ton. 23.50 - —
99-100%, tanks, works ..... ton. 23.95 - —
CP, NF, consumers' cbys., c.l., frt. equald lb. .12¾- —
consumers' cbys., l.c.l., same basis lb. .14¼- .14¾
5-pt. bots., extra, cs., c.l., works, frt. alld lb. .16¼- —
5-pt. bots., extra, cs., l.c.l., same basis lb. .17¾- .18¾
Sulfuric acid, fuming (oleum), 20%, tanks, works ton. 25.00 - —
40%, tanks, works ..... ton. 29.00 - —
65%, tanks, works ..... ton. 39.50 - —
Sumac leaves, 28% tannin, bgs., ex dock ton. 205.00 Nom.
28% tannin, grd., bgs., ex dock. ton. 200.00 Nom.
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, c.l., Baltimore unit-ton. .90 - .93
bulk, c.l., Carteret, N. J. unit-ton. .90 - .93
bulk, f.o.b., vessel unit-ton. 1.02 - —
Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla unit-ton. .98 - —
Sweet birch oil, USP, northern, cns. lb. 4.00 - 9.50
USP, southern, cns. ..... lb. 2.00 - 3.05

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2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
dms., l.c.l., same basis ..... lb. 1.25 - —
2,4,5-T Isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
dms., l.c.l., works ..... lb. 1.29 - —
Talc, dom., fibrous, New York, grd., bgs., c.l., works ton. 28.00 - —
bgs., l.c.l., works ..... ton. 31.00 -36.00
fibrous, New York, 99.5%, 325 mesh bgs., c.l., works. ton. 31.00 - —
bgs., l.c.l., works ..... ton. 34.00 - —
99.95% micronized, bgs., works. ton. 38.00 - —
Talc, dom., ord., Calif., grad., bgs., c.l., works ton. 34.00 -39.50
Vermont, off-color, grd., bgs., c.l., works ton. 19.40 - —
bgs., l.c.l., works ..... ton. 37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton. 20.00 -35.00
Tall oil, crude, dms., c.l., works lb. .04¼- .04¼
tanks, works ..... lb. .02¾- .03
Dist., dms., c.l., works ..... lb. .07¾- —
dms., l.c.l., works ..... lb. .08 - .08½
tanks, works ..... lb. .06 - .06½
Refd., dms., c.l., works ..... lb. .06¾- —
dms., l.c.l., works ..... lb. .07 - .07½
tanks, works ..... lb. .05½- .06
Tall oil acids, dms., c.l., works lb. .10½- .12
dms., l.c.l. ..... lb. .11 - .12½
tanks, works ..... lb. .08½- .10
Tall pitch, dms., c.l., works .... ton. 50.00 -70.00
tanks, works ..... ton. 40.00 - —
Tallow, edible, tanks, dlvd. ..... lb. .10 Nom.
inedible, fancy, bleachable, tanks, dlvd. lb. .07½- —
fancy, guaranteed, dms., f.a.s. lb. .09¼- —
No. 1, tanks, dlvd. ..... lb. .07½- —
prime, tanks, dlvd. ..... lb. .07¾- —
special, tanks, dlvd. ..... lb. .07¾- —
sulfonated, 25%, bbls., l.c.l. lb. .08¾- .09½
50%, bbls., l.c.l. ..... lb. .10¾- .10¾
Tallow acids, dist., dms. ..... lb. .14¼- .16¾
tanks ..... lb. .11¾- —
Hydrogenated, dms. ..... lb. .15¾- .18½
Tallow oil, acidless, dms., c.l. .. lb. .14½- —
dms., l.c.l. ..... lb. .15½- .17
Tangerine oil, Florida, dms .... lb. 2.95 - 3.50
Tankage, animal, feeding, 9-11% ammonia, New York, bulk. unit-ton. 6.40 - —
Animal, feeding, 9-11% ammonia, Chicago, bulk .. unit-ton. 7.50 - —

Finishes take a beating, too . . . when children are around. But junior's artwork wipes off clean, when the finish is skillfully formulated with the right vehicle and TITANOX* titanium dioxide white pigments.

TITANOX-RA, TITANOX-RA-50 and TITANOX-RA-NC are first choice for finishes. Here's why: they'll help you maintain the color, gloss, opacity and durability the finish must have for indoors or outdoors. And with all this, TITANOX pigments are outstanding in their working properties—adaptable to any type of mixing and grinding program. Titanium Pigment Corporation, 111 Broadway, New York 6, N. Y.; offices and warehouses in principal cities.

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TITANIUM PIGMENT CORPORATION

Subsidiary of NATIONAL LEAD COMPANY

*TITANOX is a registered trademark for the full line of titanium pigments offered by Titanium Pigment Corporation.

Tannic acid, NF, fluffy, bbls., 1,000-lb. lots..lb. 2.05 - —
bbls., smaller lots..lb. 2.04 - 2.10
Powd., bbls., 1,000-lb. lots..lb. 1.95 - —
bbls., smaller lots..lb. 1.96 - 2.01
Tech., dms. ..lb. 1.05 - —
Tansy oil, dms. ..lb. 7.50 - 9.50
Tapioca flour, Brazilian, bgs., ex whse..lb. .09 - .10
Siamese, first quality, same basis. lb. .07 - .07½
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .53½- —
dms., l.c.l., same basis..gal. .55½- —
tanks, same basis..gal. .43½- —
25-28%, dms., c.l., same basis..gal. .60 - —
dms., l.c.l., same basis..gal. .62 - —
tanks, same basis..gal. .50 - —
50-53%, dms., c.l., same basis..gal. .75 - —
dms., l.c.l., same basis..gal. .77 - —
tanks, same basis..gal. .65 - —
Tar, coal (see Coaltar).
Tartar emetic (see Antimony potassium tartrate).
Tartaric acid, dom., NF, 230 or 250-lb. dms., c.l..lb. .49 - —
230 or 250-lb. dms., 10,000-lb. lots, 1 shipt lb. .49½- —
230 or 250-lb. dms., smaller lots lb. .50 - —
100-lb. dms. ..lb. .51 - —
Imp., NF, bgs., dms., kgs ..lb. .40 - .44
Terpine hydrate, NF, cryst., powd., 100-lb. fib. dms ..lb. .70 - —
Terpineol, extra, dms. ..lb. .41 - .70
Prime, dms. ..lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .64 - .75
Prime, dms. ..lb. .53 - .56
Terpinyl propionate, dms. ..lb. 1.75 - 3.00
Terra alba (see Gypsum).
Testosterone, USP, bots. ..gram. No prices.
Testosterone proprionate, USP. gram. No prices.
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech. (see Perchloroethylene).
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works..lb. .20½- —
dms., l.c.l., works..lb. .22 - .23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .60 - —
dms., l.c.l., dlvd. E. ..lb. .61 - —
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald..lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E..lb. .53½- —
dms., l.c.l., dlvd. E. ..lb. .54½- —
tanks, dlvd. E. ..lb. .51 - —
Tetrahydrofuran, dms., c.l., t.l., works..lb. .36½- —
dms., l.c.l., or l.t.l., works ..lb. .37 - —
tanks, works ..lb. .35 - —
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .34½- —
Tetrahydrofurfuryl alcohol, dms., l.c.l., Memphis, Tenn..lb. .35½- —
dms., c.l., t.l., Newark, N. J. ..lb. .36½- —
dms., l.c.l., Newark, N. J. ..lb. .37½- —
lb. .37½- —
tanks, dlvd. E. of Denver ..lb. .34 - —
tanks, dlvd. W. of Denver ..lb. .35 - —
Tetrapotassium phosphate (see potassium phosphate).
Thallium metal, dlvd. ..lb. 7.50 -10.00
Thallium sulfate, 99%, bots., dlvd. lb. 5.00 -10.00
Theobromine, NF, fib. dms. ..lb. 4.50 - —
Theobromine and sodium acetate, USP, fib. dms lb. 4.75 - —
Theobromine sodio-salicylate, NF, fib. dms lb. 3.90 - —
Theophyline, anhyd. or USP, 100-lb. dms lb. 3.65 - —
Thiamin hydrochloride, USP, reg., fib. dms kilo.40.00 - —
USP, ampule grade, fib. dms.kilo.42.00 - —
Thiamin mononitrate, USP, fib. dms kilo.40.00 - —
Thiocarbanilide, dms., ton lots..lb. .72 - —
dms., less ton lots ..lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thioflavin green toner, brilliant, molybdated, PMA, kgs., works lb. 5.20 - —
Tungstated, PTMA, kgs., works. lb. 6.20 - —
Thioglycolic acid, refd., cbys., 100% basis lb. 1.35 - 1.55
Thiosalicylic acid, purif., dms., 1,000-lb., lots, works lb. 4.00 - —
Thiourea, tech., bgs., t.l., frt. alld. lb. .30 - —
bgs., ton lots, same basis lb. .32 - —
bgs., less than ton lots, same basis lb. .33 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots. kilo.275.00 - —
Thyme leaves, French, bgs. ..lb. .34 - —
Spanish, bgs. ..lb. .14 - —
Thyme oil, NF, red, cns., dms. lb. 2.00 - 2.25
white, cns. ..lb. 2.20 - 2.60
Tech., white, cns. ..lb. .40 - 1.85
Thymol, fib. dms. ..lb. 2.60 - 3.00
Thymol iodide, NF, dms. ..lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhyd.).
Tin crystals (see Stannous chloride, hydrous).
Tin metal (straits) ..lb. .99 - —
Tin oxide (see Stannic oxide).
Tin sulfate (see Stannous sulfate).
Tin tetrachloride, anhyd. (see Stannic chloride anhyd.).
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb. .25½- —
bgs., l.c.l., dlvd ..lb. .26½- —
reg., bgs., c.l., dlvd ..lb. .25½- —
bgs., l.c.l., dlvd ..lb. .26½- —
Titanium dioxide, anatase, metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla. ton.180.00 - —
bgs., 5-ton lots, Niagara, Falls, N.Y. ton.205.00 - —
Titanium dioxide, anatase, metallurgical, nat., bgs., ton lots, same basis..ton.215.00 - —
Milled metallurgical titanium dioxide $7.50 per ton higher.
Titanium dioxide, rutile, non-chalking, bgs., c.l., dlvd. E.lb. .27½- —
bgs., l.c.l., dlvd. E ..lb. .28½- —
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd lb. .09¾- —
bgs., l.c.l., works ..lb. .09½- —
80% Ti O_2, high-tinting, dms. c.l. lb. .14¾- —
dms., l.c.l. ..lb. .14½- —
Titanium hydride, powd., dms., works lb. 8.10 - 9.00
Titanium tetrachloride, tech., dms., c.l., works..lb. .26 - —
dms., l.c.l., works ..lb. .27½- .29
tanks, works ..lb. .20 - —
Tobias acid, bbls., l.c.l. ..lb. .01 - —
d-a-Tocopherols, mixed, NF, conc., pure basis, bots. kilo.91.00 - —
dl-a-Tocopherol, bots. ..kilo.134.20 - —
d-a-Tocopheryl acetate, NF, conc., pure basis, bots. kilo.166.00 - —
d-a-Tocopheryl acid succinate, cryst., bots..kilo.148.00 - —
dl-a-Tocopheryl acetate, bots....kilo.122.00 - —
25% dry, powd., bots..kilo.30.50 -32.00
33% dry, powd., bots..kilo.40.65 -42.50
o-Tolidine base, dry, kgs., 100% basis..lb. 1.50 - —
Paste, kgs., 100% basis..lb. 1.45 - —

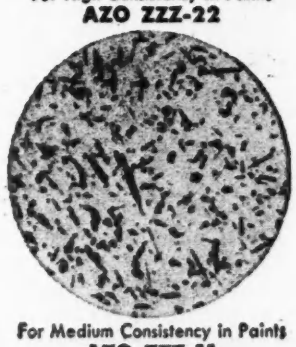
Toluol

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

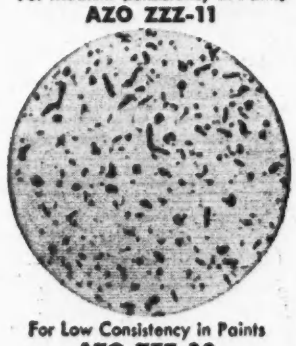
o-Tolidine hydrochloride, paste, kgs., 100% basis lb. 1.45 - —
Tolu balsam, cns. ..lb. 3.10 - 4.35
Toluene coaltar indust., or nitration, tanks, dlvd. E. of Rockies ..gal. .23 - —
Toluene, petroleum, indust., tanks, dlvd. E. of Rockies ..gal. .23 - .32
p-Toluenesulfonamide, powd., dms., works..lb. .70 - —
p-Toluenesolfonic acid, dms., c.l., t.l., works lb. .17 - —
dms., l.c.l., works ..lb. .18 - —
p-Toluenesulfonic acid monohydrate, dms., c.l. or t.l. lb. .90 - —
dms., 125 lbs. to t.l. ..lb. 1.00 - —
m-Toluidine, dms., c.l., works, frt. alld..lb. .79 - —
dms., l.c.l., same basis ..lb. .80 - —
tanks, same basis ..lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld..lb. .27 - —
dms., l.c.l., same basis ..lb. .28 - —
tanks, same basis ..lb. .25 - —
p-Toluidine, tech., flake, dms., frt. alld..lb. .50 - —
Cast, dms., frt. alld ..lb. .45 - —
p-Toluidine-m-sulfonic acid, bbls., works lb. .92 - 1.04
Toluidine, red toner, deep shades, kgs., works ..lb. 1.70 - —
Light shades, kgs., works. ..lb. 1.70 - —
2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt. alld..lb. 1.10 - —
Tonka beans, Angostura, cks. ..lb. No prices.
Brazilian, Surinam, cs. .. ..lb. 1.35 - —
Totaquine 100-oz. lots, cns. ..oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .22 - —
dms., l.c.l., l.t.l., works ..lb. .28 - —
Tragacanth gum, No. 1, ribbons, cs..lb. 3.50 - 4.50
No. 2, cs. ..lb. 3.40 - —
Trogacanth gum, No. 3, cs. ..lb. 3.00 - 3.10
USP, powd., bbls. ..lb. 1.25 - 1.38
Triacetin, dms., c.l., dlvd. E. of Rockies..lb. .39 - —
dms., l.c.l., same basis. ..lb. .40 - —
tanks, same basis. ..lb. .37 - —
Triallylamine, dms., c.l., dlvd. ..lb. .985 - —
dms., l.c.l., dlvd. ..lb. .995 - —
tanks, dlvd. ..lb. .96 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver. lb. .42½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver..lb. .43½- —
tanks, frt. alld. E. of Denver..lb. .40 - —
Tributyl phosphate, dms., c.l., works. lb. .52¾- —
dms., l.c.l., same basis. ..lb. .53½- —
tanks, same basis, ..lb. .50 - —
Tributylamine, dms., c.l., works..lb. .67½- —
dms., l.c.l., same basis. ..lb. .68½- —
tanks, same basis. ..lb. .65 - —
Trichloroacetic acid, bots. ..lb. 2.00 - 2.50
Trichlorobenzene, dms., c.l., frt. alld. E..lb. .15 - —
dms., l.c.l., frt. alld. E. ..lb. .16 - —
tanks, frt. alld. E. ..lb. .13¼- —
Trichlorobenzene prices in the West 1¼c. higher.
1,1,1-Trichloroethane, dms., c.l., dlvd. lb. .13¾- —
dms., l.c.l., dlvd. ..lb. .16¾- —
tanks, dlvd. ..lb. .12¾- —
1,1,2-Trichloroethane, dms., c.l., works..lb. .13½- —
dms., l.c.l., dlvd. E. ..lb. .14¼- —
tanks, works ..lb. .11½- —
Trichloroethylene, dms., c.l., or t.l., works, frt. equald..lb. .13 - —
dms., l.c.l., frt. alld. ..lb. .15 - .16¾
tanks, works, frt. equald. ..lb. .12 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .33 - —
dms., l.c.l., dlvd. ..lb. .36 - —
tanks, dlvd. ..lb. .32½- —
Petroleum, dms., c.l., dlvd. ..lb. .34½- —
dms., l.c.l., dlvd. ..lb. .35½- —
tanks, dlvd. ..lb. .32½- —

AZO

For High Consistency in Paints
AZO ZZZ-22



For Medium Consistency in Paints
AZO ZZZ-11



For Low Consistency in Paints
AZO ZZZ-33

AZO acicular zinc oxides are free from detrimental colloidal fines, produce exceptional weathering properties in exterior paints, and are resistant to hard settling during shelf storage. For general use in the production of paints and enamels.

1ST

American Zinc was the first, *and is still the only* producer of acicular lead-free zinc oxides covering a wide range of oil absorptions from high to low *and including the intermediate ranges.*

acicular
ZINC
OXIDE
gives paint
Extra durability

Forty years ago, American Zinc produced the original acicular lead-free zinc oxide that received wide acceptance by the paint industry and led the way over the years to improved durability from zinc oxide in exterior paints. AZO acicular zinc oxides are available over a wide range of oil absorptions to give you the required paint consistency.

ALL AZO PAINT GRADE ZINC OXIDES AVAILABLE AS AZODOX (De-Aerated)

AZODOX has twice the apparent density, half the dry bulk. Faster handling, easier storing, quicker mixing.

American Zinc sales company

Distributor for AMERICAN ZINC, LEAD & SMELTING COMPANY
COLUMBUS, OHIO • CHICAGO • ST. LOUIS • NEW YORK

Tridecyl alcohol, mixed isomers, dms., dlvd	lb.	.26¼-	—
dms., l.c.l., dlvd.	lb.	.27½-	—
Triethanolamine, dms., c.l., dlvd. E.	lb.	.24½-	—
dms., l.c.l., same basis	lb.	.25½-	—
tanks, same basis	lb.	.22 -	—
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld	lb.	.24 -	—
dms., l.t.l., frt. alld.	lb.	.25 -	—
tanks, frt. alld.	lb.	.23 -	—
Triethylamine, dms., c.l., works, dlvd. E	lb.	.50 -	—
dms., l.c.l., same basis	lb.	.51 -	—
tanks, same basis	lb.	.47½-	—
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver	lb.	.46¼-	—
non-ret. dms., l.c.l., frt. alld. E. of Denver	lb.	.47¼-	—
tanks, frt. alld. E. of Denver	lb.	.43¾-	—
Triethyl phosphate, dms., c.l., dlvd.	lb.	.40½-	—
dms., l.c.l., dlvd.	lb.	.41½-	—
tanks, dlvd.	lb.	.38 -	—
Triethylene glycol, dms., c.l. dlvd. E	lb.	.21 -	—
dms., l.c.l., dlvd. E.	lb.	.22 -	—
tanks, same basis	lb.	.18½-	—
Triethylenetetramine, dms., c.l., dlvd. E	lb.	.51½-	—
dms., l.c.l., dlvd. E.	lb.	.52½-	—
tanks, dlvd. E.	lb.	.49 -	—
Tri-isopropanolamine, dms., c.l., dlvd. E	lb.	.23¼-	—
dms., l.c.l., dlvd. E.	lb.	.24¼-	—
tanks, dlvd. E.	lb.	.20¾-	—
Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis	lb.	.30 -	.305
tanks, same basis	lb.	.26 -	—
25-40% soln., dms., c.l., works, frt. equald, 100% basis	lb.	.35 -	—
dms., l.c.l., works, frt. equald., 100% basis	lb.	.35½-	—
tanks, works, frt. equald, 100% basis	lb.	.26 -	—
Trioxane, pure, dms., c.l., t.l., works.	lb.	.50 -	—
dms., l.c.l., works	lb.	.51½-	—
Tripentaerythritol, c.l., t.l., dlvd. E.	lb.	.38 -	—
bgs., l.c.l., l.t.l., dlvd. E.	lb.	.39 -	—
Triphenyl phosphate, bbls., c.l., frt equald	lb.	.41½-	—
bbls., l.c.l., frt. equald	lb.	.43½-	—
Triphenylguanidine, bbls., works	lb.	.90 -	—
tanks, same basis	lb.	.18½-	—
Tripropylene glycol, dms., c.l., t.l., frt. alld. E	lb.	.21 -	—
dms., l.c.l., l.t.l., frt. alld. E	lb.	.22 -	—
tankcars and compartmented tankcars, frt. alld. E	lb.	.18½-	—
tankwagons and compartmented tankwagons, 1,000 gals., min. frt. alld. E	lb.	.19 -	—
Tripropylene glycol prices 1c. per lb. higher in West.			
Trisodium phosphate (see Sodium phosphate tribasic).			
dl-Tryptophane, fib., dms., works.	lb.	55.00 -	—
Tung oil, dms., c.l., New York	lb.	.23 -	—
dms., l.c.l., New York	lb.	.23¼-	.23½
tanks, New York	lb.	.21½-	—
tanks, domestic mills	lb.	.21¼	Nom.
Tungsten metal, powd., 2.0-2.5 microns, dms., works	lb.	3.54 -	—
Tungstic acid, tech., dms., 1,000-lb. lots, works	lb.	2.15	Nom.
dms., smaller lots, works	lb.	2.30	Nom.
Turkey red, bbls., works	lb.	.62 -	—
Turpentine, gum (see Protective Coatings market, Naval Stores).			
Turpentine oil, NF, cns., dms	lb.	.28 -	.50
Tuscan red, bbls., frt. equald.	lb.	.26 -	.32
Tyrothricin, USP, bots.	gram.	.54 -	.57

U

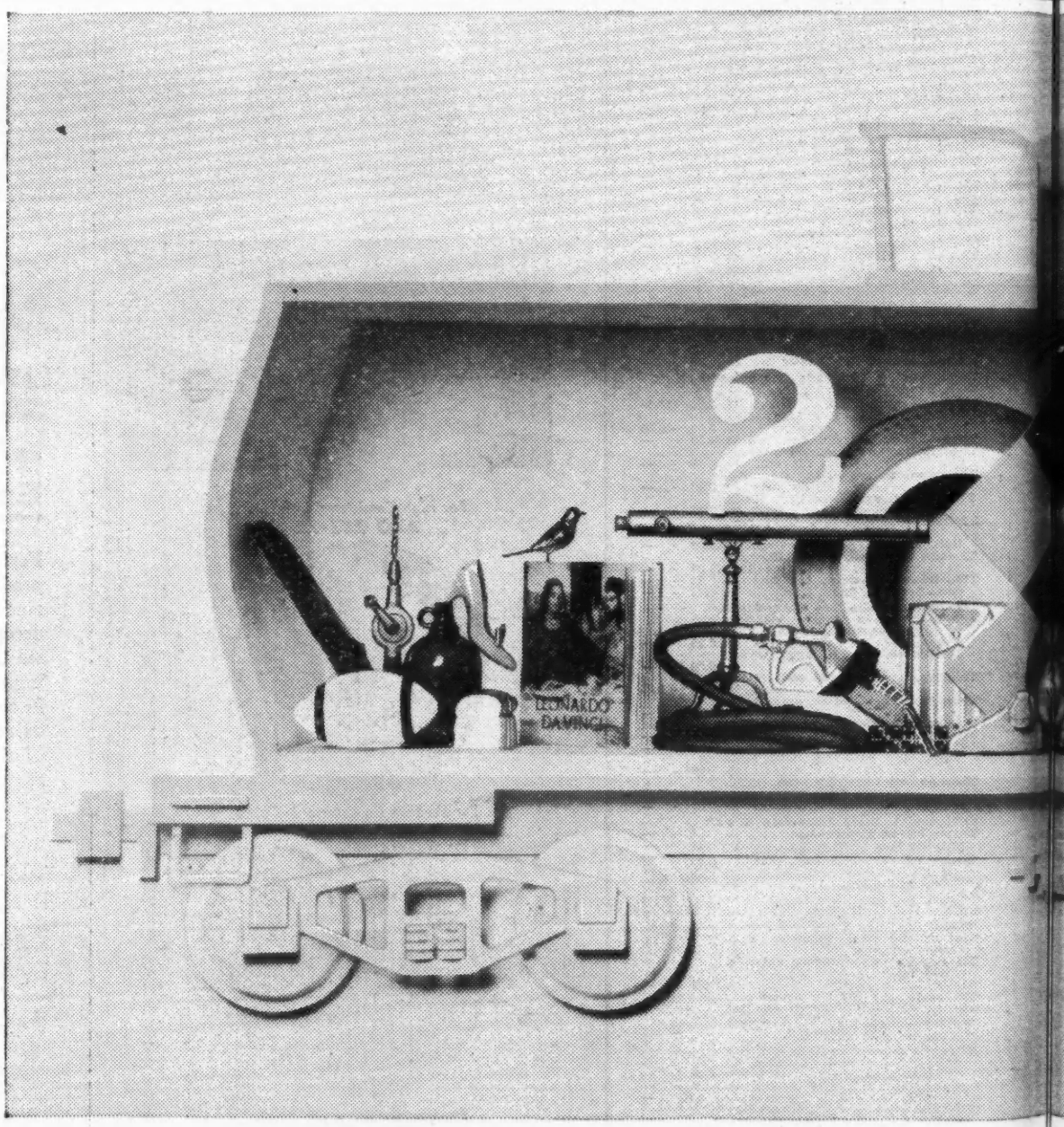
Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd. E. of Rockies	lb.	.35 -	.39½
Ultramarine blue, jobbing types, bbls., same basis	lb.	.19 -	—
Regular types, dry bbls., same basis	lb.	.22½-	.35
Ultramarine blue prices 1c. higher W. of Rockies.			
Umber pigment, burnt, American, bgs., c.l., works	lb.	.07½-	.07¾
bgs., l.c.l., works	lb.	.07¾-	.08
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y	lb.	.08¼-	—
Umber pigment, raw, American, bgs., works	lb.	.07¾-	.08¼
Turkey-type, bgs., works	lb.	.08½-	.08¾
Undecylenic acid, dms.	lb.	1.45 -	—
Unicorn root, false (see Helonias root).			
Unicorn root, true (see Aletris root).			
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E	ton.	125.00 -	—
bgs., l.c.l., dlvd. E. ex whse.	ton.	145.00 -	—
45% N, agricultural, bgs., c.l., (30 tons) dlvd. E	ton.	110.00 -	—
Urea-ammonia liquor A and B grades, N basis, tanks, Belle, W. Va	ton.	126.00 -	—
C grade, tanks, same basis	ton.	124.50 -	—
37 grade, tanks, same basis	ton.	153.00 -	—
Urethane, USP, dms., t.l., f.o.b., works	lb.	.65 -	—
dms., l.t.l., same basis	lb.	.70 -	—
Uva-ursi leaves, bls.	lb.	.17 -	.19

V

Valerian root, Belgian, bgs.	lb.	.35 -	—
Indian, bgs.	lb.	.29 -	—
dl-Valine, cms., works	lb.	21.00	-27.50
Valonia beards 40-42% tannin, bgs., ex dock	ton.	88.00	-90.00
Valonia cups, 28-30% tannin, bgs., ex dock	ton.	66.00	-67.00
Valonia extract, powd. 63% tannin, bgs., ex dock	lb.	.11 -	—
Vanadium pentoxide, tech., dms., works	lb.	1.28 -	1.33
Vandyke brown, bbls., works	lb.	.09½-	.12
Vanilla beans, Bourbon, tins	lb.	10.60	-10.90
Mexican, cuts, tins	lb.	10.50	-10.80
whole, tins	lb.	10.60	-10.90
Tahiti, cs.	lb.	7.30	- 8.00
Vanillin, ex lignin, 100-lb fib. dms., 1,000-lb. lots or more	lb.	3.00 -	—
100-lb fib. dms., 500-lb. lots	lb.	3.10 -	—
100-lb fib. dms., 100-lb. lots	lb.	3.25 -	—
Venetian red, jobbing, bgs., works,	lb.	.0475-	—
20%, bgs., works	lb.	.0525-	—
25%, bgs., works	lb.	.0575-	—
30%, bgs., works	lb.	.06 -	—
35%, bgs., works	lb.	.0625-	—
40%, bgs., works	lb.	.0675-	—
Vetiver oil, Bourbon, cns.	lb.	11.50	-15.50
Haitian, cns.	lb.	10.75	-12.50
Java, cns.	lb.	11.75	-12.25
Victoria blue toner, molybdated, PMA, 250-lb. bbls., dlvd. E. of Rockies	lb.	4.50 -	—
Victoria blue toner, bbls., prices 1c. higher W. of Rockies.			
Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd	lb.	.20 -	—
55-gal. dms., l.c.l., dlvd.	lb.	.21 -	—
tanks, dlvd.	lb.	.17½-	—
tanktrucks less than 4,000 gal., dlvd	lb.	.18 -	—
Zone 2, 55-gal. dms., c.l., dlvd	lb.	.21 -	—
55-gal. dms., l.c.l., dlvd.	lb.	.24 -	—
tanks, dlvd.	lb.	.18½-	—
tanktrucks, less than 4,000 gals., dlvd	lb.	.19 -	—
Zone 1 is all continental U. S. except Zone 2. Zone 2 comprises Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.			
Vinyl n-butyl ether, tech., dms., l.c.l., works	lb.	.50 -	—
Vinyl chloride monomer, tanks, works	lb.	.12½-	—
Vinyl ether, tech., dms., c.l., works.	lb.	.26 -	—
dms., l.c.l., works	lb.	.28 -	—
tanks, works	lb.	.25 -	—
Vinyl ether, USP, anesthesia, bots., 50cc., hospitals	bot.	1.12 -	—
bots., 75cc., hospitals	bot.	1.56 -	—
Vinyl ethyl ether, tech., dms., c.l., works	lb.	.29¼-	—
dms., l.c.l., works	lb.	.30 -	—
tanks, works	lb.	.27¼-	—
Vinyl methyl ether, cyls., works	lb.	.30 -	—
Cylinders are sold outright, or if shipped against deposit, a free period of sixty days is allowed; and if empties are returned prepaid and in good condition within that period full refund is made.			
Vinyl propionate monomer, dms., c.l., dlvd	lb.	.49½-	—
dms., l.c.l., same basis	lb.	.50½-	—
tanks, same basis	lb.	.47 -	—
Vinyl trichloride (see Trichloroethane).			
2-Vinylpyridine, 10 dms. to tanks, works	lb.	1.30 -	—
1 to 9 dms., works	lb.	1.45 -	—
tanks, works	lb.	1.25 -	—
Vinyltoluene, dms., c.l., f.o.b., works.	lb.	.16½-	—
dms., l.c.l., same basis	lb.	.18½-	—
tanks, same basis	lb.	.14 -	—
Viosterol, in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units. 1,000,000 units.		.02½-	—
Virginia type red, bbls., works	lb.	1.40 -	—
Vitamin A acetate, syn., cryst., beads 500,000 A units per gram gram.		.07¼-	—
dry, 500,000 units per gram, kilo lots	kilo.	67.50 -	—
325,000 units per gram, same basis	kilo.	43.88 -	—
250,000 units per gram, same basis	kilo.	33.75 -	—
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.			
Vitamin A, liq. in oil, 1,000,000 A units per gram, 1,000,000 units		.10 -	—
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units.		.10 -	—
Liq. in oil, 1,000,000 A units per gram 1,000,000 units.		10 -	—
Vitamin B_1 (see Thiamine hydrochloride).			
Vitamin B_2 (see Riboflavin and Yeast).			
Vitamin B_{12}, cryst., USP, 1-50 grams, vials, tins	gram.	163.00 -	—
1% vitamin B_{12}, adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms.	gram.	2.25 -	—
Vitamin B_{12}, oral grade solids, in containers of 1 and 10 grams of B_{12} activity	gram.	150.00 -	—
0.1 percent trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10	kilo.	188.00 -	—
Vitamin B_{12}, 1% vitamin B_{12} oral grade solids, adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms.	gram.	1.65 -	—
Vitamin C (see Ascorbic acid).			
Vitamin D (see Codliver and Fish-liver oils, Calciferol and Viosterol).			
Vitamin D_2, dry, 850,000 units per gram, kilo lots	kilo.	42.50 -	—
850,000 units per gram, less than kilo lots	kilo.	45.00 -	—
Vitamin E (see a-Tocopherol and Wheat germ oil).			
Vitamin G (see Riboflavin).			
Vitamin H (see Biotin).			
Vitamin K_1, active (see Menadione).			
Vitamin K_1, 25 gram bots	gram.	4.50 -	—
Violet methyl toner (see Methyl violet toner).			
VM&P naphtha (see Naphtha, VM&P, petroleum).			

W

Wahoo root bark, bls.	lb.	2.10 -	—
Warfarin, 0.5%, dms., 50-lb. lots, dlvd	lb.	1.93 -	—
dms., 25-49-lb. lots, New York or Chicago	lb.	2.05 -	—



COLUMBIA-SOUTHERN CHEMICALS CREATE

SALES MAKE MORE PROFITS when they're balanced carefully against product development, processing, and marketing costs. That's the big reason you look so closely at the total "package" you get when you buy such essential materials as chemicals.

Naturally, you start with dependably high-purity basic materials. You require on-schedule delivery, geared to your specific handling and use. Perhaps most of all, you want the kind of practical, market-conscious technical assistance that helps open new fields for your present or contemplated products. In brief, you need a chemical partner, not simply a supplier. So hard to locate? Not at all. Naturally, you're thinking of:

Columbia-Southern Chemical Corporation, One Gateway Center, Pittsburgh 22, Pennsylvania. Offices in fourteen principal cities. In Canada: Standard Chemical Limited.

Warfarin, 0.5%, cns., 5-24-lb. lots, New York or Chicago..lb. 2.15 - —
Watchung-type reds, bbls. .....lb. 1.95 - —
Wattle bark, fair average, African, bls., ex dock..ton.68.00 - —
Merchantable, bls., ex dock..ton.64.00 - —
Wattle extract, liq., 35% tannin, bbls lb. .06¼- .06½
Solid, East Africa, 60% tannin, bgs., ex dock lb. .08273- —
South Africa, 60% tannin, bgs., ex dock..lb. .0840- —

Waxes

Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms ...gal.12.25 - —
Wheat starch (see Starch, wheat).
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls... lb. .18 - .19
White precipitate, USP, powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls .lb. .18 - —
Thin, rossed, bls. ..... lb. .21 - —
Wintergreen oil, USP, nat., northern, cns .lb. 6.35 -17.50
USP, nat., southern, cns. ... lb. 3.75 - 7.00
Wintergreen oil, syn. (see Methyl salicylate).
Witch hazel bark, bls. ..... lb. .16 - .17
Witch hazel leaves, bls. ..... lb. .22 - —
Wollastonite, fine, bgs., c.l., works. ton.39.50 - —
Wollastonite, fine, bgs., l.c.l., ex whse. ton.56.00 - —
Medium, bgs., c.l., works....ton.27.00 - —
bgs., l.c.l., ex whse. .....ton.44.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat, crude (see Degras).
Woolfat, USP (see Lanolin).
Wormseed, Levant, bgs. .....lb. 4.25 - 4.50
Wormseed oil (see Chenopodium oil, NF).
Wormwood oil, cns. .....lb. 4.90 - 5.85

X

Xylene, coaltar, indust., tanks, works:
Bethlehem, Pa. .....gal. .29 - —
Birmingham dist. .....gal. .29 - —
Chicago dist. .....gal. .29 - —
Cleveland dist. .....gal. .29 - —
Geneva, Utah .....gal. .29 - —
Johnstown, Pa. .....gal. .29 - —
Lackawanna, N. Y.....gal. .29½- —
Lone Star, Tex. .....gal. .27 - —
Lorain, Ohio .....gal. .29 - —
Middletown, Ohio .....gal. .30 - —
Minnequa, Col. .....gal. .29 - —
Philadelphia dist. .....gal. .29 - —
Pittsburgh dist. .....gal. .29 - —
Sparrows Point, Md. ...gal. .29 - —
Terre Haute, Ind. .....gal. .29 - —
Youngstown, Ohio .....gal. .29 - —
Xylene, petroleum, indust., tanks, f.o.b. works:
Bayonne, N. J. .....gal. .29 - —
Baytown, Tex. .....gal. .27 - —
Charleston, S. C. .....gal. .29 - —
Chicago, Ill. .....gal. .30 - —
Houston, Tex. .....gal. .27 - —
Philadelphia, Pa. .....gal. .29 - —
Providence, R. I. .....gal. .30 - —
Sewell's Point, Va. .....gal. .28 - —
Wood River, Ill. .....gal. .29 - —
Xylenol, cryst., 45°-47° C., m.p., dms., l.c.l., works lb. .23 - —
Xylenol, cryst., 56°-58° C., m.p., dms., l.c.l., works, frt. equald lb. .33 - —
60°-62° C., m.p., dms., l.c.l., same basis lb. .40 - —
Xylenol fraction, b.r. 7°-9° C., dry above 227° C., dms., c.l., same basis gal. 1.25 - —
dms., l.c.l., same basis gal. 1.30 - —
tanks, same basis ... gal. 1.05 - —
Xylenol fraction, b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis ... gal. 1.15 - —
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works lb. .39 - —
dms., l.c.l., same basis .....lb. .40 - —
tanks, same basis .....lb. .38 - —

Xylol

Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. ..... lb. 2.15 - 3.05
Yeast, brewers, debittered, USP, Saccharomyces dlvd lb. .27 - —
Yeast, brewers, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
USP, 200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Torula, USP, dlvd .....lb. .18 - —
Yerba santa leaves, bls. ..... lb .40 - .42
Ylang-ylang oil, Bourbon, bots lb.19.00 -25.00

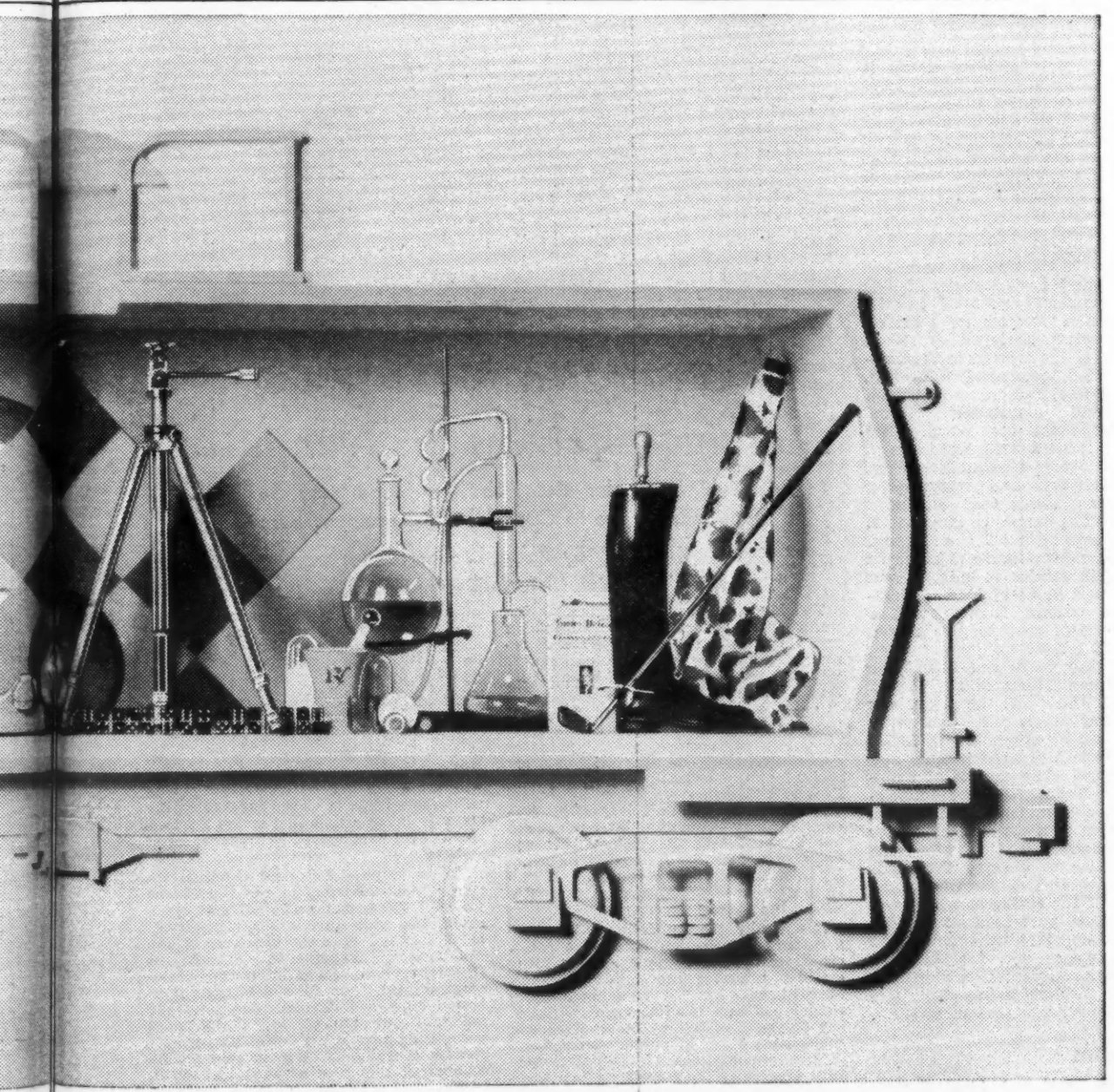
Yellow Pigments

Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow.

Ylang-ylang oil, Bourbon, extra, bots lb.28.00 -40.00
Madagascar, bots. ..... lb. No Stocks.
Yohimbine hydrochloride, bots., tins. oz. 4.75 - 5.25

Z

Zein, bgs., 36,000-lb. lots or more, bgs., 500-lb. lots or more, dlvd. lb. .343 - —
bgs., smaller lots, dlvd .....lb. .373 - —
Zinc acetate, NF, VIII, dms. ... lb. .53 - —
f.o.b. plant lb. .28 - —
Tech., dms., l.t.l., works ... lb. .29½- —
Zinc borate, bgs., 1.000 lbs or more, works lb. .23 - —
bgs., less than 1,000 lbs., same basis lb. .25 - —
Zinc chloride, NF, gran., dms lb. .42 - —
Precip., powd., dms ..... lb. .26 - —
Soln., 50%, dms., c.l., works, 100 lbs. 5.80 - —
dms., l.c.l., works ...100 lbs. 6.40 - —
tanks, works ..... 100 lbs. 5.15 - —
Zinc chloride, tech., fused, dms., c.l., works 100 lbs.10.70 - —
dms., l.c.l., works ..100 lbs.11.20 - —
gran., fib dms., c.l., works. 100 lbs.11.45 - —
fib, dms., l.c.l., works. 100 lbs.11.95 - —
Zinc chromate, bbls., dlvd. ..... lb. .29 - —
Basic, bbls., dlvd. ..... lb. .34 - —
Zinc cyanide, dms., 1,000-lb. lots or more, works lb. .55 - —
dms., smaller lots, works .. lb. .57 - —
Zinc dust, coml., bbls., c.l., works. lb. .1510- —
Pigment, bbls., c.l., works..... lb. .15½- —
bbls., l.c.l., works .....lb. .16½- —
Zinc fluoride, bbls., works ... lb. .49 - .50
Zinc hydrosulfite, dms., c.l., frt. alld lb. .21½- —
dms., l.c.l., frt. alld. ..... lb. .23½- —
Zinc metal, prime western, slabs, E. St. Louis lb. .11 - —
Prime western, slabs, New York. lb. .11½- —
Zinc naphthenate, liq., 8% Zn., dms., frt. alld lb. .27 - —
10% Zn., dms., frt. alld lb. .33 - —
Zinc nitrate, tech., cryst., bbls., works lb. .20 - —
Zinc oxide pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½- —
bgs., l.c.l., same basis lb. .15½- —
Zinc oxide pigment, American process, leaded, 35%, bgs., c.l., mills, frt. alld lb. .15½- —
bgs., l.c.l., same basis lb. .16½- —
50% bgs., c.l., same basis lb. .15½- —
bgs., l.c.l., same basis lb. .16½- —
Zinc oxide pigment, French process, green seal, bgs., c.l., mills, frt. alld. lb. .16¼- —
bgs., l.c.l., same basis lb. .17¼- —
Zinc oxide pigment, French process, red seal, bgs., c.l., same basis. lb. 15¼- —
bgs., l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis. lb. .16¾- —
bgs., l.c.l., same basis lb. .17¾- —
USP, ctns., c.l., frt. alld .... lb. .17¼- —
ctns., l.c.l., same basis .... lb. .18¼- —
Zinc oxide, Pac. Coast prices 1c. higher.
Zinc phenolsulfonate, NF, gran., dms lb. .44 - .45
NF, powd., dms. ..... lb. .47 - .48
Zinc resinate, precip., 7.2-7.6% Zn., dms., frt. alld lb. .36¼- —
Zinc silicofluoride, dms., works lb. .12½- .14
Zinc stearate, tech., USP, ctns., c.l., lb. .41 - —
Zinc sulfate, powd., monohydrate, ctns., l.c.l. ..... lb. .42 - .46
36% Zn., bgs., c.l., dlvd. E 100 lbs. 8.75 - —
bgs., l.c.l., dlvd. E 100 lbs. 9.75 - —
USP, gran., dms. ..... lb. .26 - —
Zinc sulfate in bbls. 40c. higher.
Zinc sulfide, pure, bgs., c.l., dlvd lb. .2530- —
Zinc undecylenate, dms. ..... lb. 2.00 - —
Zinc yellow (see Zinc chromate).
Zinc-ammonium chloride, bgs., c.l., works ..100 lbs.10.25 - —
bbls, c.l., works .....100 lbs.10.85 - —
bbls., l.c.l., works .....100 lbs.11.35 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. . lb. .25½- —
dms., l.c.l. ..... lb. .26 - —
Zircon (G), gran., bgs., c.l., works. lb. .03¼- —
bgs., 5 tons to c.l., works lb. .03¾- —
bgs., 1 ton to 9,999-lb. lots, works lb. .04 - —
bgs., smaller lots, works .. lb. .06½- —
Zircon (G), milled, bgs., c.l., works. lb. .04½- —
bgs., 5 tons to c.l., works ... lb. .04¾- —
bgs., 1 ton to 9,999-lb. lots, works lb. .04¾- —
bgs., 500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels 1c. higher.
Zirconium acetate, 13% soln., ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 - —
Zirconium hydride, powd., dms., works lb. 7.25 - 9.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works lb. 1.50 - —
Electric-fused, lump, bgs., 500 to 1,999-lb. lots, works lb. .45½- —
bgs., smaller lots, works .. lb. .48 - —
milled, bgs., c.l., works ..... lb. .59 - —
bgs., 5-ton lots, works .... lb. .59½- —
bgs., 1-ton to 9,999-lb. lots, works lb. .60 - —
bgs., 500 to 1,999-lb. lots., works lb. .60½- —
bgs., smaller lots, works lb. .63 - —
Glass polishing grade, 94-97% ZrO_2, bgs., works .... lb. .55 - .65
Opacifier grade, 85-90% ZrO_2, bgs., lb. .27 - .50
Stabilized oxide, 91% ZrO_2, milled, bgs lb. .62 - .85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works.....lb. .35½- —



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Information Service for Science

The National Science Foundation has been ordered by President Eisenhower to set up as speedily as possible a clearing house as a center for science information service. The President's action followed his receipt of a report by his science advisory committee that the security of the nation might rest upon the availability to its scientists of adequate data on plans, research, and accomplishments in all areas of science throughout the world.

The plan of the advisory committee which the President endorsed is to have the National Science Foundation correlate and index the millions of papers and other sources of data published or otherwise issued annually by students, researchers, and others similarly active in every country. The promoted objective is that a scientist working at any stage in a particular field will be enabled to learn quickly and accurately where he can find early and late data relevant to his endeavors. The committee urged that the proposed service center complement the scope of its own indexing through collaborative recognition of the resources of existing data centers for specialized research established and operated by various educational, industrial, and governmental agencies.

In its report, the committee summated its findings as follows:

"It may be said that both inside and outside the normal channels of scientific communication a mounting flood of scientific data threatens to swamp even the most zealous research investigator . . . Our very progress in science is dependent upon the free flow of scientific information, for the rate of scientific advance is determined in large measure by the speed with which research findings are disseminated among scientists who can use them in further research."

An outstanding problem in connection with making scientific information available throughout the world and especially in this country was presented by the chairman of the President's advisory committee as follows: "The situation is further complicated by the fact that a large and important proportion of the world's scientific literature appears in languages unknown to the majority of American scientists, such as Russian and Japanese." That aspect of the overall task of providing scientific information was presented under the heading, "Russian for Scientists," in the November 15 issue of "Chemistry & Industry," with the following advice: "If scientists do not learn Russian at the university their most probable source of instruction in afterlife will be evening classes in the area in which they work. The supply of such classes is conditioned strictly by the demand because local authorities insist upon a minimum number of students before allowing a class to continue. It should be remembered in this connection that scientists can always find profit in classes in elementary non-scientific Russian because a person with a technical background who can read literary Russian will find no difficulty when he has to translate technical material."

An informative discussion of the language problem appeared in the October issue of "Endeavour," a British quarterly review "designed to record the progress of the sciences in the service of mankind," published in English, French, German, Italian, and Spanish editions, and distributed without charge throughout the world. The article was entitled "The Language of Science." It covered selected languages, a common language, and professionally prepared translations, and concluded as follows: "The barrier of language is harmful in science, but it is, of course, an equally serious obstacle in all fields of learning, in politics, in industry and commerce, and in every kind of dealing between nations. It might well be that if scientists were to give a lead others would follow."

It is seriously to be urged that the scientific organizations in the United States and those of the industries which depend largely and importantly upon the contributions of scientific workers ascertain in what manner and to what extent they can be of assistance to the National Science Foundation in the establishment, maintenance, and operation of a clearing house for scientific information that will come somewhat close to meeting the needs to which it is directed. Because of the complexity of the problems which will fall upon them by reason of the demands—and opportunities—incident to the nuclear-space age, the scientific and industrial organizations in the chemical field should be especially and actively interested in that direction.

'Boss Monopoly' in Labor

Because of the loud and lusty proclaimings by leaders of organized labor with reference to where it is going and how it is going to get there in the next few years, it was quite natural that labor got a deal of attention at the recent convention of the National Association of Manufacturers. What will come out of that attention remains to be seen. The contributions to the discussion were in large part as confusing as they were instructive. It will take a big variety of looking, digging, and doing to get anywhere from such statements as that of the chairman of the Republican National Committee: "It is my considered opinion that the Republican Party lost scores of candidates . . . largely on the right-to-work issue."

Something with at least more information was contributed by the Postmaster-General, whose qualifications as an analyst and therapist in labor troubles may be sufficient to get him the attention which his suggestions apparently deserve. He predicted that more action would be seen on the part of business in a nationwide "educational" campaign to alert stockholders and others to a threat to the national economy by uncontrolled labor "bosses." The contributions of labor "bossism" to inflation were painted in bright-red warning colors by the PMG. "The principle of antitrust" should be applied to its thwarting, he declared.

The concern of the PMG had mainly to do with the "boss monopoly" in union affairs—with spending practices in particular. His antitrust proposal has a far more pertinent application under the recently reported contracting between the United Mine Workers and major producers of soft-coal in an agreement providing for a tight marketing boycott on non-union-produced coal. If that is not combination in restraint of trade, that term statutorily has nothing like its common, logical meaning. If such an agreement is put into effect, both parties will be guilty of clear violation of the antitrust laws—to say nothing of their contributions to unemployment. They should be punitively dealt with promptly and adequately.

South America Is Viewed

"Despite international misunderstandings, we found the warmest kind of friendship from Caracas to Rio de Janiero." That was the background of the message brought back from South America by the International Seminarians expedition upon its recent return from a month's "people-to-people" visit to seven countries in the southern member of the western hemisphere. From the somewhat sketchy personalized reports by several members of the group, it is quite evident that notable and encouraging progress was made in its stated purpose "to counteract recent evidences of inter-American ill-will by enabling private citizens to discuss their nations' problems on a candid and conversational basis."

It is sincerely to be hoped that the full experiences of the expedition will be published and widely circulated, not only in the civic and professional circles represented by its participants, but especially in all business and political—including governmental—areas, with emphasis in the last-named on the basis for and significance of the comment by the leader of the expedition that "South Americans showed a terrible naivete in their approach to Communists within their own countries. They feel that their Communists are different—not wicked and brutal like the Communists in Moscow."

For both the industrial and the governmental audiences, there is a big lesson in this comment by another member of the expedition, a UN observer for the League of Women Voters: "This country has often incurred South American enmity by our appearance of friendliness with dictatorships. We caught hell for this every place we went."

That is but one of the many areas in which international misunderstanding with respect of all Latin America demands corrective attention. Another is presented in the general statement by members of the expedition that "questions most often asked during seminars and forum meetings in the eight cities visited covered such areas as racial segregation and American foreign policy and the distribution of foreign aid." It is to be assumed that no satisfactory replies were given with reference to foreign policy and aid; nobody knows what the answers there are. As to foreign aid for example, what is the United States doing through any channel to relieve the thousands who are reported to be substantially or wholly without food in certain regions in Brazil?

And there is great timely pertinence in respect of foreign policy in this question: To what extent is the US government manifesting anything like real and necessary leadership in the current Washington conference of high officials of twenty-one American republics, seeking a program for the promotion of the economic strength of Latin America and the counteracting of Communistic penetration there? The outcome of that conference can be—will be—crucial throughout the Western hemisphere.

Washington Talks It Over

Scientists' Thirst for Research Knowledge May Be Slaked By President's Move to Coordinate Information Sources.

By Ralph L. Cherry
Chief, OPD Washington Bureau

The big questions facing scientists the world over with respect to information are: How can the present volume of research results be published promptly? What is being published now? Where is it? How can I get at it?

Answers to these pertinent and most important questions in these days of great scientific advancements will probably never be complete—but they may be made easier by an important step just taken by President Eisenhower.

Acting on recommendations of his Science Advisory Committee, Mr. Eisenhower has directed that the National Science Foundation take the leadership in bringing about effective coordination of the various scientific information activities within the federal government.

Specifically, the foundation is to set up a Science Information Service to assist, cooperate with, and supplement the many existing scientific information programs but will "take over" none of them. The service will have two important functions:

- Through effective coordination and cooperative effort of public agencies and private organizations to capitalize upon and improve existing facilities and technics in such a way as to afford immediate relief to short-term problems of pressing nature.
- To encourage and support a fundamental, long-term program of research and development, looking to the application of modern scientific knowledge to the over-all problem through the application of machine technics and through yet-undiscovered methods.

Vegetable Oil Export Hike Expected

Department of Agriculture economists expect a sizable increase this year in exports of edible vegetable oils, but little change is expected in exports of soybeans, while exports of flaxseed probably will decline.

The expected larger exports of edible oils (cottonseed and soybean) would mainly reflect the heavier movement of oils which has taken place under public law 480 from July 1, 1958, to date. The expected decline in flaxseed exports reflects the larger foreign supply outlook and therefore world prices that are likely to be below US support levels.

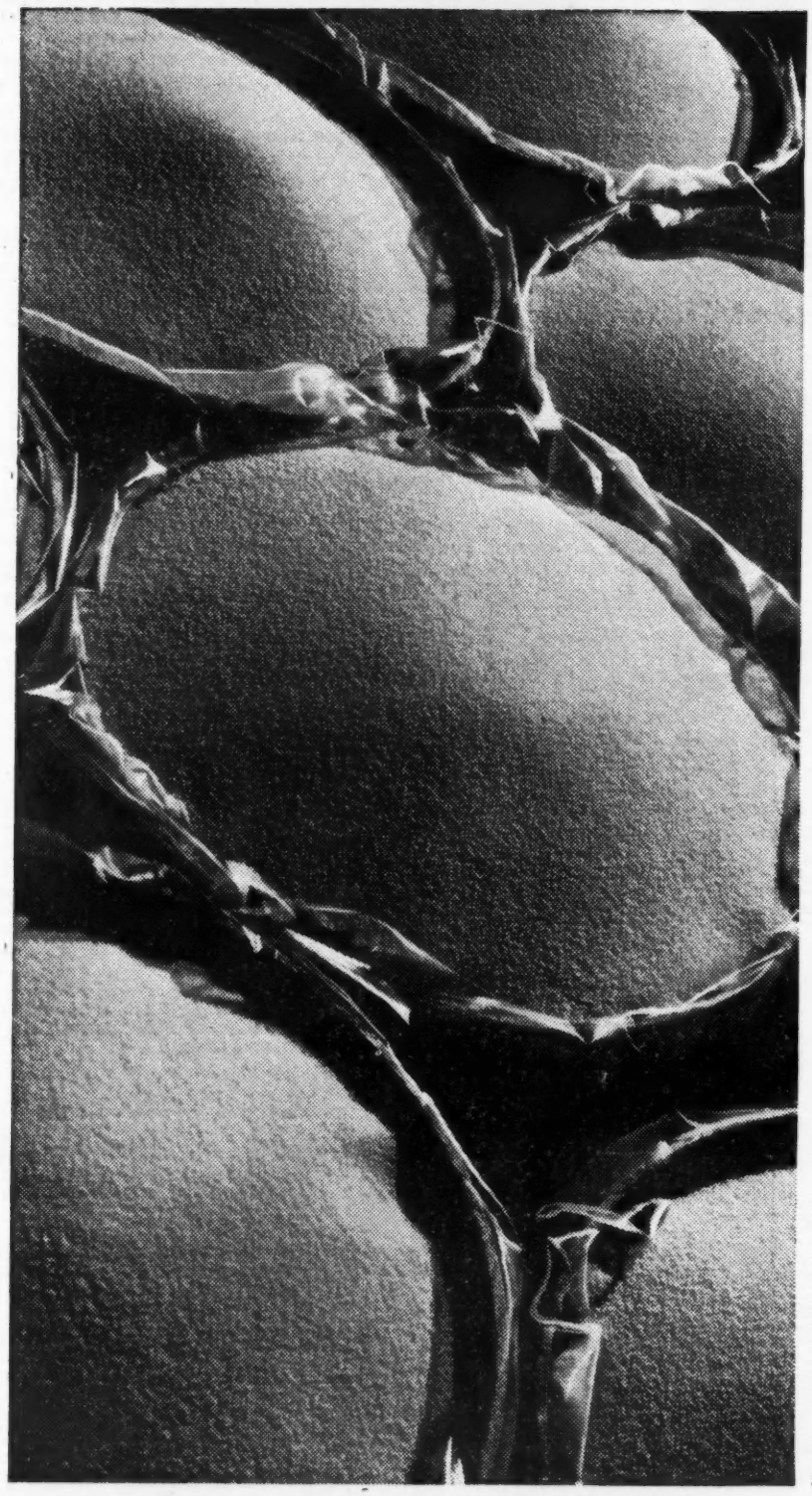
Russian Work on Fertilizers

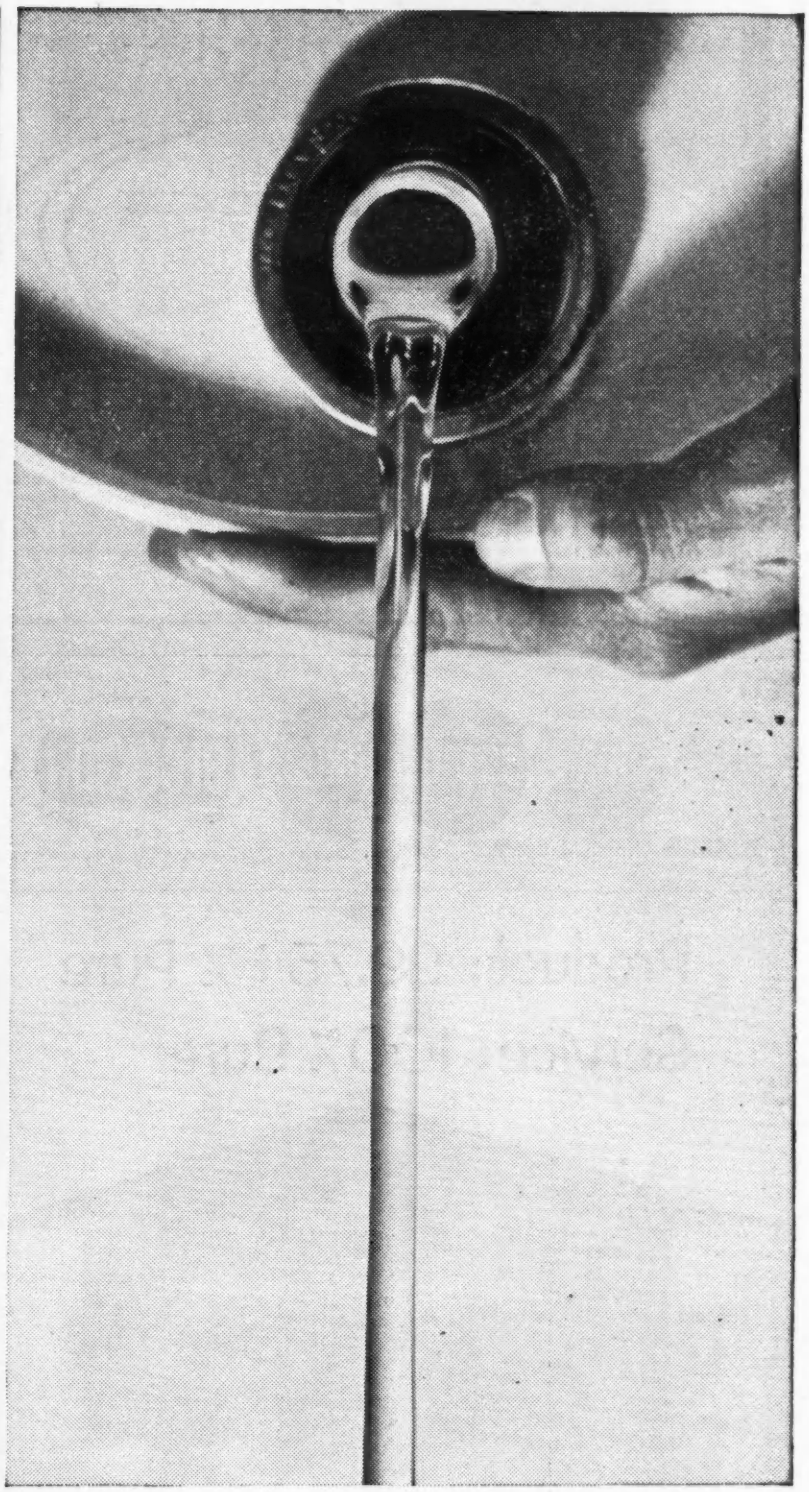
Some of our farm experts who have visited Russia in the exchange program to observe Russian progress in the agricultural fields are anything but impressed with work being done on fertilizers and pesticides. This is what they had to say recently in an article in *Foreign Agriculture*, which is published by Department of Agriculture:

"Work in physiology and nutrition appeared rather limited at the institutions visited. Some well-organized and replicated field plots involving various levels of N, P, and K were observed at the Sinelnekova Experiment Station at Dnepropetrovsk. Some interesting physiological studies on fiber development in cotton bolls and detailed studies of the effect of nutrition on boll development were being done at the Cotton Experiment Station at Tashkent. But, in general, the amount of this type of work was small.

"Work on pest control was also limited. DDT and benzene hexachloride are being used for insect control in orchards and vegetable fields. Bordeaux mixture and other copper fungicides are apparently the only materials being used for field control of diseases. Some mercurials were said to be used for seed treatment. Many grain fields were weedy. We were advised that the manufacturing capacity for 2,4-D was about 5,000 tons, or only enough to treat about 5 percent of the small grain acreage. Efforts are being made to increase this.

"If original research is underway to develop pesticide materials, we saw no evidence of their being applied. It was stated that the Soviet Union is trying to formulate and manufacture pesticides that had been developed in other countries; and since the Soviet Union does not honor foreign patent rights, this could very well happen."





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Heavy Chemicals

A producer has scheduled an increase of $10 per ton for barium oxide assaying 94 percent minimum, effective January 1. On the same day, various price adjustments on boron chemicals will go into effect. Otherwise, the price of mercury eased last week. Producers of a great number of the heavy chemicals report that they are currently writing contracts for the first quarter at unchanged prices. This specifically includes the alkalies and phosphates. Acid producers, too, don't think there will be any changes for the next quarter.

In any event, price advances after today are not likely, since the fifteenth of the month preceding any quarter is usually the deadline for contract adjustments.

Many industry observers indicate that an interesting phenomenon is taking place now: Consumers are continuing to buy in good volume despite the approach of the holidays and the year's end.

The fact that demand is not lagging is attributed to consumers' inventory positions. Ordinarily, demand slackens at this time of year as consumers use up their own supplies in order to be in a favorable position at the end of the year.

Jan. 1 Price Advances

Ammonium biborate, 50c. per ton.
Barium oxide, $10 per ton
Borax, tech., powd., $2.50 per ton.
Boric acid, tech., cryst., $28.50 per ton.
Boric acid, tech., powd., $2.50 per ton.
Sodium metaborate, octahydrate, $10 per ton.
Sodium metaborate, tetrahydrate, $10 per ton.

Due to the recession, it is pointed out, buyers' stocks have been cut to the bone for some time. Therefore, buying continues apace, since consumers' reserves are already low.

Calcium chloride sales have been helped considerably by the widely prevalent snow over much of the country. Some producers say they are running five days behind on deliveries against contracts—a normal situation for this time of year.

Aluminum producers have scotched rumors of an imminent price rise by guaranteeing current prices on their products through June 30, 1959.

The American Paper and Pulp Association reported production for the week ended December 6 at 90.3 percent of theoretical capacity as compared with the revised figure of 86.5 percent for the previous week, and 91.1 percent for the corresponding week of last year.

Acids

Hydrochloric—It is now believed that sales of acid for this month will look good. So far, there has been no indication of a slough-off in buying.

While some decline in inquiry is anticipated during the balance of the year owing to the impending holiday season, it is felt that there won't be the inventory-cutting among consumers to the extent that has occurred in past holiday and year-end periods.

Hydrofluoric—Buying interest is well maintained, and at present, shows very little indication of letting up. Producers point out, however, that normal seasonal declines can be expected during the balance of the year.

Nitric—Consumers, who have been running on low inventories for most of the year, are reported by acid producers as facing little or no liquidation problems for year-end tax purposes.

Hence, demand is expected to hold at about its present rate for the balance of the year. There may be a seasonal decline in ordering during the Christmas holidays, it is pointed out.

Sulfuric—While demand in all areas is considered generally good, competition on the east coast—all the way from Boston to Baltimore—remains keen, and prices are reportedly being shaded as much as $4 per ton in some cases, with the balance of shading in the neighborhood of $1 to $2 per ton.

Most producers in the area report that they are meeting this competition where it exists. This situation has been going on for a long time, they point out. It looks like the industry will have to live with it for some time to come, according to several spokesmen.

Price Trends

Advanced
None

Reduced
Mercury, $2 per flk.
Silver, ½c. per oz.
Tin, ¼c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
104.45	104.50	104.66	103.38

For Current Prices see page 9

Aside from the east coast area, prices for all grades of sulfuric acid are reported firm. Furthermore, list prices on a natinonwide basis are expected to hold unchanged for the first quarter.

Steel output last week rose to an estimated 2,015,000 tons, or 74.7 percent of capacity, from the previous week's actual output of 1,985,000 tons, or 73.5 percent of capacity, according to the American Iron and Steel Institute.

Bases and Salts

Barium Oxide—A producer last week indicated that it would increase prices by ½c. per pound on barium oxide, assaying 94 percent, effective January 1.

Calcium Chloride—With snow blanketing much of the nation at present, orders from highway maintenance departments for road de-icing have suddenly boomed.

One producer says he is running five days behind on orders, and others report a similar position. Such a delay is considered about normal, considering the weather conditions.

Caustic Potash—The KOH business has made a slow, but moderately good improvement over the past two months. Producers expect business to hold up fairly well right up to the year's end.

Caustic Soda—There are some in the industry who report that a gradual turnabout in the chlorine-caustic ratio has been taking place for the past two months.

On the basis of these reports, this means that increased demand for chlorine has created an excess in supplies of caustic, where previously, cutbacks in chlorine output had kept co-product caustic stocks in good balance with demand.

The majority of reports, however, indicate that caustic soda is still in good balance, chiefly because chlorine output has not been stepped up enough to create a surplus in caustic spplies.

Chlorine—A producer who last week eliminated a price bracket for delivery of cylinder chlorine in the New York area (effective January 1) reported last week that 2,500 pounds per year would continue quoted at $17.50 per cwt.

The producer announced last week that the weight bracket should be 3,600 pounds instead of 2,500 pounds per year.

The industry has spent some time trying to find out why chlorine has been dragging its heels during the recovery from the recession, while the alkalies have snapped back in good order.

Some sources feel that weakness in chlorinated solvents, owing to the influx of imported solvents at lower prices, has been a key factor.

Most observers indicate, however, that the lag has been general, rather than attributable to one or two specific problems. Consensus is that consumers throughout the end use pattern are remaining cautious.

Copper Sulfate—October output of 3,764 tons, was 32 percent higher than September's 2,844 tons, according to the Bureau of Mines.

Shipments of 3,288 tons in October scored a 13 percent increase over September's 2,912 tons, but were 500 tons less than output. Stocks increased 12 percent, to 4,536 tons in October from 4,064 tons earlier.

At the October rate of shipments, stocks were sufficient for about six weeks' requirements. Exports in September amounted to 532 tons.

Lime—Domestic open-market sales of all types in September rose to 687,421

Heavy Chemicals

tons, from sales of 649,895 tons in August, says the Bureau of Mines.

Sales for chemical and other industrial use in September rose sharply, to 424,595 tons from 399,126 tons in August. A significant fact, however, is that January-September sales for chemical and industrial use in 1958 total 3,487,141 tons.

During the January-September period of 1957, sales of lime for chemical and industrial use totaled 4,091,962 tons. That puts this year's running total half a million tons behind the same period for 1957.

Refractory (dead-burnt dolomite) sales in September rose to 146,880 tons from 137,951 tons in August. Running totals are: January-September, 1958—1,136,010 tons; January-September, 1957—1,793,164.

Soda Ash—Business held up well last week, and was expected to go on at a steady pace, depending on production activity among large volume consumers, such as glass, aluminum, and phosphates.

Sodium Phosphates—There has been a slight pickup in sales of di- and trisodium phosphates. Business has been active for such higher phosphates at tripoly and meta.

Soapers have been actively ordering to meet immediate needs. Other industrial inquiry for the sodium phosphates is said to have shown general improvement over the past two months.

Sodium Silicofluoride—This market is in better balance than previously. There is said to be a lot of sodium around, but not nearly as much as was the case last summer.

Sodium Sulfate—Producers report that paper mills, which normally cut back on salt cake orders at this time of year, are not doing so.

In previous years, it is pointed out, consumers maintained sizable inventories which they preferred to liquidate at the end of the year. Apparently, this is not the case, this year, since buyers have maintained low stocks during most of the recession.

Salt cake sellers expect a moderate decline in consumption during the next few weeks, chiefly because of an anticipated cutback in paper mill production during the holiday period. However, they feel the fall in consumption will not be as drastic as it has been in the past.

Nonferrous Metals

Aluminum — Scotching rumors of a possible impending price increase, the aluminum industry last week froze its prices on the metal for the next six months, until June 30, 1959.

A spokesman for the industry said that the move had been made to "prevent chaos" which might otherwise have resulted because some integrated producers had previously promised that prices would remain the same only on orders placed by December 31, and shipped prior to next July 1.

By offering its price protection policy, the industry assured its customers of present prices on all products until July 1, making it unnecessary for purchasers to place large blanket orders—without knowing what their needs might be for the

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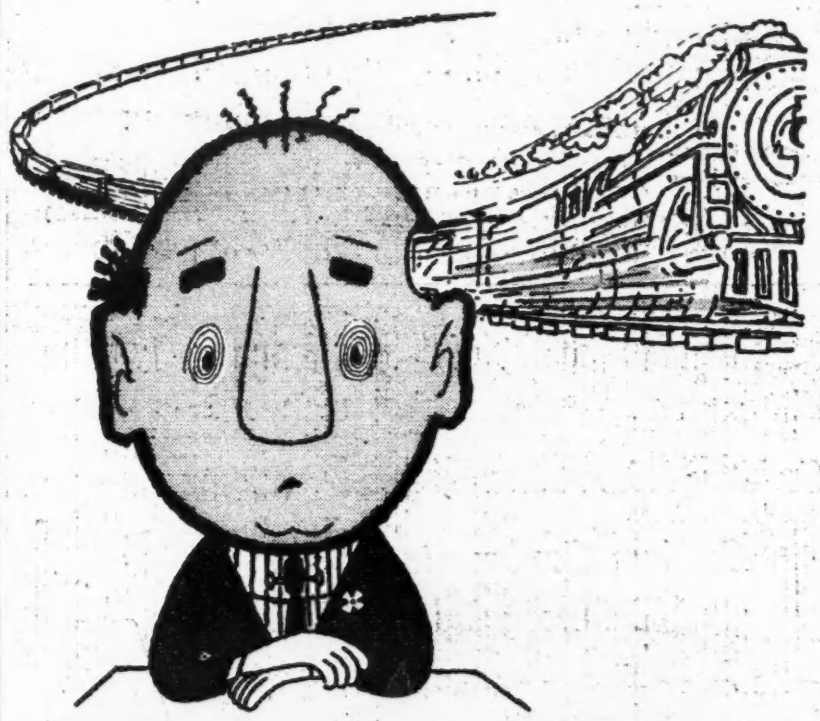

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Heavy Chemicals

next six months—before the end of this year.

Current price of 24.7c. per pound for pig metal will not be increased during the period January-July. It was assumed in the industry that any reductions would automatically be applied to orders during the period.

Primary output in the United States in October rose to 137,419 tons from 124,713 tons in September, the Aluminum Association says. This is more than the October total last year, which was 133,759 tons.

Production for the period January-October, 1958 is 1,268,650 tons, compared with a total of 1,372,653 tons produced for the period January-October, 1957.

Copper—Primary producers continued to quote electrolytic at 29c. per pound, delivered US destinations, unchanged.

Mercury—Metal slipped again last week, quoted Friday at $222 to $226 per flask, spot.

More mercury was produced in the United States in the period July-September, 1958, than in any other quarter since World War II, according to the Bureau of Mines.

Output during the third quarter reached 9,800 flasks, compared with 9,400 flasks in the second quarter, and 10,400 in the period April-June, 1944.

General imports in July (740 flasks) and August (1,647) averaged 23 percent above the monthly rate in the second quarter, but were 25 percent below the monthly rate established in the period January-June.

Consumption of mercury dropped to 10,000 flasks in the third quarter from 16,100 in the second quarter.

The 38-percent drop was caused mainly by the fact that third quarter expansion in capacity at a chlorine and caustic soda plant using mercury cells took considerably less than the entirely new installation of this type which was included in the figures for the April-June quarter.

Chlorine and caustic soda cell consumption dropped to 1,129 flasks in the third quarter. Agricultural use was off, to 1,040 flasks from 1,884 flasks the previous quarter.

Catalyst use declined to 107 flasks from 149 flasks the previous period. Pharmaceutical use was off to 665 flasks from 947 flasks. Electrical apparatus use declined to 1,124 flasks from the previous 2,499.

Silver — Bullion declined fractionally last week, and was quoted at 89⅝c. per troy ounce.

Tin—Straits metal continued strong, and moved in a narrow range. Tin was quoted at 99c. per pound, spot, on Friday.

Obituaries

Kenneth W. Macksey

Kenneth W. Macksey, president and cofounder of Mack Molding Company, Wayne, N. J., and Mack Molding, Ltd., Waterloo, Canada, died December 5 in Glen Ridge, N. J. He was sixty-four years old.

Mr. Macksey was a pioneer in the field of plastic molding. His firm, which he founded in 1921, was the third established in the United States.

Christian M. Dredger, who retired in 1937 after thirty years as manager of the statistical department of Socony-Vacuum (now Socony Mobil) Oil Company, New York, died December 6 in Ridgewood, N. J. He was eighty-four years old.

Rocket Explosion Is Fatal To Three on Callery Staff

Three staff members of the Lawrence, Kans., high energy fuel plant of Callery Chemical Company, Callery, Pa., were killed December 5 when a rocket they were fueling with a secret propellent exploded.

The three, Charles I. Sattes, William S. Reynolds and Frank Wengrzyn, were part of a group of five who engaged in the experiment which was forbidden by company regulations.

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Farben Backs Its Claim To Enter GAF Picture

Attorneys representing the liquidators of the I. G. Farben interests have gone on record in defense of their claim for a right to intervene in legal proceedings through which a Swiss holding company is trying to regain stock holdings in General Aniline & Film Corporation.

Answering arguments made by lawyers for Interhandel, the Swiss holding company, the Farben liquidators' attorneys asserted that the possibility that Congress may vote to return the seized assets gives them a right to intervene.

The law firm of Cahill, Gordon, Reindel & Ohl, which represents the Farben liquidators, told the Federal District Court in Washington last week that their motion to intervene in the Interhandel case is not directed to the seeking of any property from the government "but is directed rather to preventing the illegal disposition of the vested assets."

TGA Unit Advised

—Continued from page 7

uct "treading on dangerous ground." The second—or employee panel—generally consists of groups that are inadequate in size and lack adequate controls, he went on.

The third method—the laboratory approach—although sound in concept is too often conducted among employees of the company where conditions of usage may be biased by dislike of the job, the supervisor or by the duty-bound employee who feels it his unconscious duty to praise the company products, Mr. Spinner concluded.

Methods of Antiperspirant Testing

In another paper, E. W. Daley, of Procter & Gamble Company, spoke on two methods of antiperspirant testing. He said the back method is a more rapid and convenient procedure for measuring antiperspirant efficacy than the auxiliary method and gives the same range of average results with equal accuracy.

Dr. Otto K. Jacobi, of Kalmar Research Center, in a paper on the possible skin irritations caused by lipstick, pointed out that the so-called "kiss-proof" lipsticks appear to be entirely harmless to the skin.

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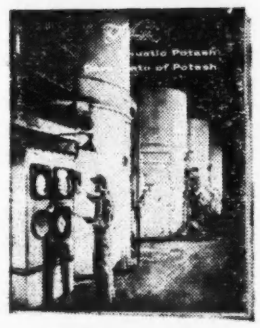

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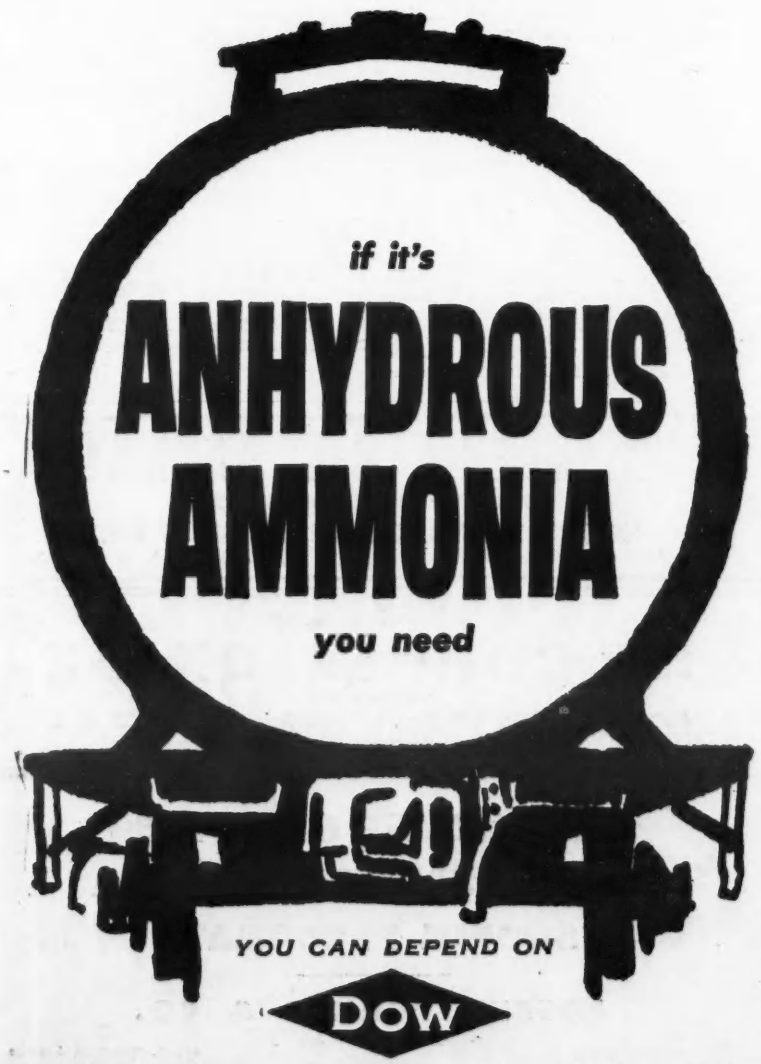

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Diamond Crystal Charged With Illegal Salt Firm Deal

Federal Trade Commission today charged Diamond Crystal Salt Company, St. Clair, Mich., one of the five largest salt producers, with illegally acquiring Jefferson Island Salt Company, Louisville, Ky., a major competitor.

The commission said that in 1955 Diamond was the fourth largest dry salt producer, with shipments of 434,043 short tons, and the third largest producer of evaporated salt, with its shipments representing 10.9 percent of all such salt sold or used by the salt industry of the country.

Jefferson Island ranked sixth in dry salt production, with 388,771 tons, it was stated, and was the third largest producer of rock salt, with 365,548 short tons.

The commission said that the dry salt industry is highly concentrated in that in 1955, the six largest manufacturers, including Diamond and Jefferson, shipped 7,281,859 short tons, or 78.5 percent of the total for the country.

Nitrogen World Surplus

—Continued from page 3

cers because of plants being built in Greece, Turkey, Iran, Egypt, India, Pakistan, and the mainland of China—as well as additions to existing plants.

• Mounting stocks in Japan, owing to cancellations (for political reasons) of part of the contract with Red China. As storage facilities are not great, Japan may have to curtail output in the near future unless large sales are made to other eastern markets.

• Soviet nitrogen production. Output in 1958-59 should reach 800,000 metric tons, up 50,000 tons from 1957-58 levels, and almost double the 470,000-ton output in 1952-53.

• Export prices from Europe. Ammonium sulfate has dropped as low as £14, f.o.b., in bags, and calcium ammonium nitrate has declined to £13 7s. The prices apply only to heavy consuming areas such as Red China and other far eastern nations. Elsewhere, prices have remained steady.

Aikman observes that there is no doubt that these prices are not remunerative, and it won't be too long before producers will either have to raise quotations, or cut output.

• The Chilean nitrate squeeze. Chile's economic position, resulting in higher living costs, and hence, higher costs of production, has interfered with all but the mechanized producers—who are still using solar evaporation and doing well.

Whittaker, Clark to Move

Whittaker, Clark & Daniels, Inc., will relocate its New York headquarters at 100 Church street, effective today. According to the firm, the move provides for expanded office facilities in the new building. The company was at 260 West Broadway.

Pacific Coast Borax Correction

Surcharges for combined multi-customer carloads of 10 to 20 tons of borax chemicals have been raised to $4 per ton, effective January 1, by Pacific Coast Borax Company, New York, a division of United States Borax & Chemical Corporation. The 10 to 20 ton category was incorrectly quoted at $2 per ton in a price story in the OPD December 1 issue. Pacific Coast Borax has hiked the price because of higher labor charges.

Cyanamid Profit Off

—Continued from page 3

ity of the Piney River, Va., plant, will bring Cyanamid's total capacity to 88,000 tons a year.

• Construction of the first urea plant in Canada, with a capacity of 66,000 tons a year.

• Completion of a facility in North Carolina with a yearly capacity of 40 million square feet of "Formica" flake board, which Formica Corporation (a wholly-owned subsidiary) will market as an underlayment for laminated plastics, and for other uses.

Among Cyanamid's new products, Dr. Malcolm singles out the success of "Aristocort" triamcinolone, a steroid compound for rheumatoid arthritis, allergies and certain skin disorders, which has been readily accepted.

Why the reduction in earnings? Dr. Malcolm explains that "with the number of significant capital projects being completed in fairly close succession, it is to be realized that the accumulated burden of start-up costs, additional depreciation and low initial output is of some magnitude.

"Furthermore, in the case of our synthetic fiber, it has been necessary to establish an entirely new operating division which is being carried without any income as yet.

"The aggregate of such extraordinary start-ups, depreciation and divisional expenses is likely to exceed 25 cents per share of common for 1958. That annual rate may continue at least during the first half of next year."

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Agricultural Chemicals

Market for agricultural chemicals was without significant developments last week. Trading was listless as is usual at this time, though increased buying interest was reported for next season's requirements. Prices for most materials remained on a steady basis. Contracts were under negotiation at prevailing quotations for delivery next year, according to sources. Pesticides also commanded more interest for 1959 needs and contracts were reported renewed for aldrin, endrin, dieldrin and parathion at current prices. DDT was recently advanced 1 cent per pound for spot and later delivery by a leading producer, but the markup has not become general as yet. Business was reported pending on contracts at unchanged listings.

Production of fertilizer materials in Canada, except anhydrous ammonia for the year ended June, 1958, was officially reported at 1,337,586 tons compared with 1,174,615 tons during the previous year. Items produced included ammonium nitrate, ammonium phosphate, ammonium sulfate, superphosphate and cyanamide. The output of mixed fertilizers increased to 736,113 tons against 729,037 tons for the same period in 1957. Imports of fertilizers (excluding anhydrous ammonia) amounted to 946,231 tons compared with 920,157 tons during the previous fertilizer year. Imported items were natural phosphate rock, 572,000 tons; superphosphate, 167,676 tons; muriate of potash, 129,388 tons; nitrogen solution, 27,820 tons and sulphate of potash, 17,812 tons. Phosphate rock was used in Canadian plants to make superphosphate and ammonium phosphate. Most of the other imported materials were used in making mixed fertilizers.

Price Trends

Advanced

Dried blood, Chicago, 25c. per unit-ton. Tankage, N. Y., 5c. per unit-ton.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
109.91	110.99	109.97	107.52

For Current Prices see page 9

Jan. 1 Price Advances

Ammonium nitrate, $3 per ton.
Anhydrous ammonia, $4 per ton.
Nitrogen solutions, $5 per ton.
Potassium muriate, 2½c. per unit.
Potassium sulfate, 2½c. per unit.

Animal and Plant Foods

Anhydrous Ammonia—This market was quiet. A steady tone prevailed, with quotations unchanged for prompt and next season's requirements.

Animal Proteins—Scarcity of fishmeal continued to feature this market. Domestic meal ranged from $158 to $160 per ton, f.o.b. works, Atlantic coast. Menhaden catch off North Carolina has improved but offers of meal were still limited. Imported meal was quoted from $160 to $165 per ton, f.o.b. port of entry, January-February shipment. Stocks of fishscrap were nil and merely nominal at $154 to $156 per ton, works, Atlantic coast.

Tankage was in tight supply and was slightly higher at New York, while the Chicago market remained unchanged and firm. Sales of tankage were reported at $6.40 per unit ton, New York basis. The Chicago market was maintained at $7.50 per unit ton.

Firmer tone prevailed in the dried blood market. Prices were raised 25c. to $7 per unit ton, Chicago, while the New York market was unchanged at $6.50 per unit ton. Hoofmeal was in limited supply and closely held at $6.75 per unit ton, Chicago.

Lime—Domestic sales of quicklime for agricultural use in September continued to show slight gains over the previous month, totaling 7,958 tons compared with 5,783 tons in August, but was well below the 12,073 tons sold in September last year. Total sales for the January-September period were 41,427 tons against 58,323 tons for the same period in 1957.

Sales of hydrated lime for agricultural consumption in September also were larger than the previous month and totaled 10,051 tons compared with 7,593 tons in August. Total stocks sold during January-September inclusive amounted to 97,967 tons compared with 115,717 tons for the same time last year.

Domestic sales of open-market lime were only slightly higher in September than August. Sales during September totaled 687,421 tons compared with 649,895 tons in August and 755, 543 tons, September, 1957. Total sales amounted to 5,551,565 tons during January-September inclusive against 6,887,825 tons in the comparable period in 1957.

Superphosphate—September production of superphosphate and other phosphatic fertilizers in the US amounted to 168,377 short tons (100% A.P.A.), compared with September, 1957 output of 191,975 tons. Shipments of superphosphate and other phosphatic fertilizers during the month totaled 145,882 short tons, or an increase of 20 percent from the volume shipped during September of last year.

Stocks of superphosphate 100 percent APA on hand at the end of September totaled 333,193 tons compared with 362,905 tons (revised) in August and 346,814 tons end of September last year. Normal and enriched, 100 percent APA, 18,158 tons against 183,413 tons (revised) in August and 197,097 tons, September, 1957. The concentrated grade stocks totaled 131,151 tons end of September compared with 148,124 tons in August and 126,620 tons, September last year. Ammonium phosphates stocks end of September amounted to 16,058 tons against 19,558 tons (revised) in August and 14,231 tons, September, 1957.

Urea—Construction of a new $40 million fertilizer plant at Chung-Ju, Korea is 80 percent completed and will produce 250 metric tons of urea daily, enough for nearly one-third of the food growing needs of Korea. The plant, described as the largest of its kind in the Far East, will use a modern process system controlled by about 500 pneumatically operated instruments.

Pesticides

Parathion—Buying interest was more pronounced as formulators prepared sales campaigns for the coming season. Some business was reported booked for the new season's requirements at current quotations. Recent sharp price reductions for domestic grades have brought listings down to a low level, which action was necessary to meet competition from foreign material. Ethyl and methyl grades were available at 84c. per pound, drums, carlots and truckloads, freight allowed compared with the price of $1.25 per pound, effective last April.

Superphosphate & Other Phosphatic Fertilizer Production

Following are data compiled by the Bureau of the Census indicating superphosphates and other phosphatic fertilizer produced and shipped in the United States, January through September, 1958. Included are percentage changes. All material is 100 percent A.P.A. in short tons.

Grade	1958 *in shorts tons* 100 percent A.P.A. Production	1958 Shipments	1958 *percentage change from 1957* Production	1958 Shipments
Normal and enriched	941,412	524,614	— 8	— 8
Concentrated	624,772	645,782	+ 2	+ 1
Other phosphatic fertilizer	218,480	220,344	+20	+20
Total	1,784,664	1,390,740	— 2	....

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Textile, Leather Chemicals

No price shifts occurred in the textile and leather chemicals market last week. Demand in general for chemicals was moderate. Eggyolk was in a slightly tight supply position due to heavy sales in the same month to Spain and our National School Lunch Program. Potato starch was somewhat disorganized with stocks sufficient and prices nominal. The tanning materials market was quiet as well.

The weekly average rate of fiber consumption on the woolen and worsted systems in October was 4 percent below the September rate but 15 percent above that of October, 1957.

The Census Bureau reported that the weekly average raw wool consumption during October was 7.045 million pounds (scoured basis), or 5 percent below the September level, but 17 percent above that of October, 1957. Consumption of apparel class wool was 7 percent below the September level but 16 percent above that of October of last year.

The consumption rate of carpet wool was 1 percent below that of the preceding month but 20 percent above the October, 1957 rate.

Consumption of fibers other than raw wool averaged 6.248 million pounds per week, or 4 percent below the September average but 13 percent above October, 1957, Census said.

Woolen and worsted fabric production during the third quarter of 1958 was 70.1 million finished linear yards, was four percent greater than the previous period, and three percent above the output of the third quarter of 1957. Men's and boy's clothing fabric production decreased 15 percent during the third quarter to 25.4 million finished linear yards.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
100.84	100.84	100.82	103.09

For Current Prices see page 9

Chemicals

Bichromates—Price patterns, in effect for some time, continued the same last week. There were reports that demand for the production of chrome pigments would increase as automotive sales and production moved upward.

Hydrogen Peroxide—Present and future needs in the market were said to be well covered. Price levels were expected to stay the same for the balance of the year. Demand remained limited as well.

Sodium Hydrosulfite—Immediate and future needs of the material were well taken care of by sufficient supplies. The volume of business against contract and on spot purchases was unchanged with buyers limiting purchases to prompt delivery. Prices were maintained at current levels.

Sulfonated Oils—Activity in the market was moderate. Sulfonated oils have been influenced by the growing competitive pressure from compounded chemical process products which are designed to do the same job.

Sizing Materials

Albumin, Egg—The material stayed at previous price levels last week. Flake was listed at $1.09 to $1.11 per pound, and powder ranged from $1.13 to $1.15. Technical albumin, egg retained a listing of $1.08 to $1.10 per pound. Stocks appeared to be sufficient, and trading was spotty.

Corn Starch—Demand continued to be restricted to fulfillment of immediate needs. Prices of all grades of corn starch were unchanged with pearl listed at $7.38 per 100 pounds, paper bags, carlots, New York basis; and powder at $7.50, same basis. Less carlot prices were 15c. higher.

Visible corn supply declined 1,066,000 bushels to 89,137,000 bushels for the week ended December 5. This compared with 89,071,000 bushels for the corresponding week one year ago, it was reported by the Chicago Board of Trade.

Egg Yolk—A shortage of the material caused a slight uprise in prices several weeks ago. Temporary burden was put on fresh eggs when purchases by the Spanish government and our National School Lunch Program coincided. This pressure was forecasted to ease within several weeks.

Potato Starch—The market continued to be somewhat disordered last week. Prices were nominal. Potato starch stocks were said to be ample in both the East and the West and both markets have been trying to push their material. Sorghum starch has been moving into the West from Corpus Christi at a price 2c. lower than Idaho potato starch. Thus, being unable to meet the competition, it makes it all the more inperative for Idaho potato starch to find a market in the East.

The Agriculture Department advised potato farmers to cut their acreage for spring harvesting next year 16 percent below the 1958 acreage.

The department's "acreage guide" recommended cultivation of 183,035 acres for the 1959 spring potato crop, down from the 217,700 planted for this year's crop. That would produce a 1959 spring crop of about 28,700,000 hundredweight of potatoes, compared with 30,805,000 hundredweight produced last spring.

Spring potatoes are now being planted in California and Florida, and plantings will continue in other areas until about mid-April. These potatoes are harvested between April and June.

Sago Flour—A steady tone prevailed at primary markets. Shipment levels were well held at 5¼c. per pound, carlots, ex dock, prompt shipment, and later delivery. Raw flour was listed at 7¼c. to 7½c. per pound; exwarehouse and refined materials at 9c. to 9½c., same basis.

Tapioca Flour—The market was reported to be fairly dead last week after an active one, two weeks ago. Prices of both Brazilian and Siamese tapioca flour were maintained at previous levels. Brazilian prices were nominal.

Tanning Materials

Since production for October was officially recorded at 53,270,000 pairs by the Department of Commerce. This volume represents one of the largest monthly production runs this year and is the highest level of output for any October on record. The October pairage represent a 3.6 percent increase over a year ago. For the first ten months, production amounted to 489,155,000 pairs, or 3.9 percent less than the volume produced in the same period of 1957.

Approximately 64 percent of the footwear produced in October had all or part leather uppers as compared to 83 percent a year earlier. Shoes with leather soles accounted for 33 percent of output, the same proportion as in October, 1957.

The average factory value of shoes shipped in October was $3.52 per pair against $3.51 a year ago.

Chestnut Extract — This material remained much the same as in previous weeks. Buying interest was slack, and shipments moved in moderate volume only. Prices continued at the same levels.

Cutch—Shipment offers continued to come in in small amounts only last week. Levels were held at 7½c. per pound.

Mangrove Bark—Prices of all grades were held at previous levels last week. African bark ranged from $67 to $68 per ton, ex dock. Columbian and Ecuadorian bark were listed at $50 and $47 per ton, ex dock, in that order. Buying continued to be light.

Myrobalans—A hand to mouth policy of trading existed in this market last week. Buying interest was limited to fulfillment of immediate needs only. Ex dock prices were listed from $50 to $51 per ton for J-1's genuine, and from $65 to $66 per ton for crushed myrobalans. Bombay material was unchanged at $44 to $45 per ton.

Quebracho Extract — Only occasional lots of the material were being traded last week, it was reported. Interest in purchases was only spotty. Prices of all grades of quebracho extract were steady.

Aliphatic Organics

A front-rank producer announced last week that effective January 1 it will increase the price differential between carload and less carload lots by ½ cent per pound for solvents and a variety of other chemicals sold on a delivered basis. Higher costs involved in handling small shipments necessitated a readjustment upward from the current 1 cent spread, it was said. Industrial chemical products to be effected by the change include esters, ketones, isopropanol, alkyl amines, and ethylene amines.

Encouraged by a resurgence of interest in formaldehyde from most end-users since the beginning of Fall, spokesmen for leading producers find the immediate outlook good. Several anticipate a slight pause in the sales pace shortly, however, believing, as they said, that customers have already built up adequate inventories and before doing much more substantial buying will wait for demand for their end-products to pick-up proportionately.

Trade feeling is mixed about what might happen to the formaldehyde price schedule. While announcements of a price advance may be forthcoming this week, trade observers doubt it, considering an April 1 hike much more likely. Opinion is that a higher price at this time would serve only to stifle or delay a really lasting improvement in demand and for this reason several people think producers will sit-tight on current schedules.

Production of most of the major-league organic chemicals climbed substantially in September. Making notable gains were butadiene, up 8 million pounds and formaldehyde and methanol, up 17 and 12 million pounds, respectively. Dropping below August levels were carbon disulfide and ethanolamines. For the latter, an inbalance between production-inventory and sales—an old problem—was indicated by the 3 million pound decline, it was said, as the end-use pattern has continued to expand.

Though there are still depressed areas in the pentaerythritol market, an overall improvement in demand is diversely reported. Output in 1958 will probably outdistance that of '57, it's said.

The crude glycerine stalemate continues. Material is still short and while there have been offerings, asked prices have discouraged potential buyers from entering the market.

Acetic Acid—Captive consumption of acetic acid is running into good volume with demand for the various chemicals for which acetic is a building block sparking the increased usage. External sales, which generally are not of very large consequence, have also been climbing with the pick-up in operations in the textile industry.

Dipentaerythritol—Di-PE supplies continue on the short side, inadequate to meet the active demand. No change in this awry balance is looked for immediately. Prices, advanced October 1, are firm.

Ethyl Acetate—Lacquer requirements continue at a substantial level and the accelerating rate of new car sales should add additional zest to demand for ethyl acetate—and other solvents, as well, in coming weeks. Some sources expect the customary lull as the holidays approach which could push sales down for the month overall.

Production continued upward in September, according to Tariff Commission statistics. Supplies are fully adequate, prices firm.

Ethanolamines—In September, ethanolamines production, one of few declines recorded by the Tariff Commission, dropped approximately 3½ million pounds from the August level. Several trade members interpreted this rather substantial dip in output as the result of an inbalance between production and sales, and thus an attempt to bring inventories into line. They could see no particular significance from the end-use pattern aspect, which is broad, diversified and still growing.

Demand for the ethanolamines has been steady and in good volume during the past two months, according to trade reports. Di-ethanolamine was said to be receiving good call for detergents manufacture; triethanolamine for use in varied wax and cosmetic formulations. Outlook is for continued growth in these applications but at a somewhat slower rate than has been customary in previous years.

Price schedules for the ethanolamines appear firm. No major changes are considered likely, at least through the first quarter of next year.

Ethylene Dichloride—Trade reports of last week indicated that there have been no significant developments in the ethylene dichloride market situation during the past few months. Material is readily available, requirements routinely moderate, sources agreed. Sizable quantities of the chemical were being used as raw material in the manufacture of vinyl chloride with lesser amounts going to solvent end-uses, which has been the traditional pattern over recent years.

Having been around a long time and consequently replaced in certain applications by newer developments, ethylene dichloride usage is not expected to grow to any great extent in the future. But the market status quo will probably be maintained, it's said.

A long established price schedule includes a tankcar quote of 9c. per pound, a drum carlot of 11½c., both on an eastern delivery basis. West of the Rockies, prices are 1 cent per pound higher. These listings are considered stable and due to the rather static quality of the market for this chemical, price fluctuation is quite unlikely.

Formaldehyde—Comments from trade sources last week were shot through with

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
130.73	130.73	130.73	131.02

For Current Prices see page 9

Organic Chemicals Output: September

The following figures, in pounds, represent output of specified organic chemicals in August and September, 1958, as reported by the Tariff Commission.

	September	*August*
Acetic acid:		
Synthetic	52,554,485	49,324,770
Natural (Wood distillation)	—	1,466,000
Acetic anhydride	80,452,144	86,444,821
Acetone	58,448,147	49,243,946
Acrylonitrile	14,835,564	12,280,107
1,3-Butadiene (grade for rubber)	125,636,177	117,635,020
Carbon disulfide	38,218,791	41,246,179
Carbon tetrachloride	28,653,050	24,188,318
Ethanolamines (Mono-, di-, and tri-)	6,343,081	9,809,979
Ethyl acetate (85 percent)	9,654,010	8,552,213
Ethylene Glycol	89,410,257	88,983,276
Formaldehyde (37 percent by weight)	134,493,609	117,207,171
Methanol:		
Synthetic	133,805,475	121,302,517
Natural (Wood distillation)	—	989,360
Pentaerythritol	5,119,571	4,401,121
Perchloroethylene	14,771,958	12,790,975
Propylene glycol	8,459,810	—
Trichloroethylene	25,335,207	23,620,866

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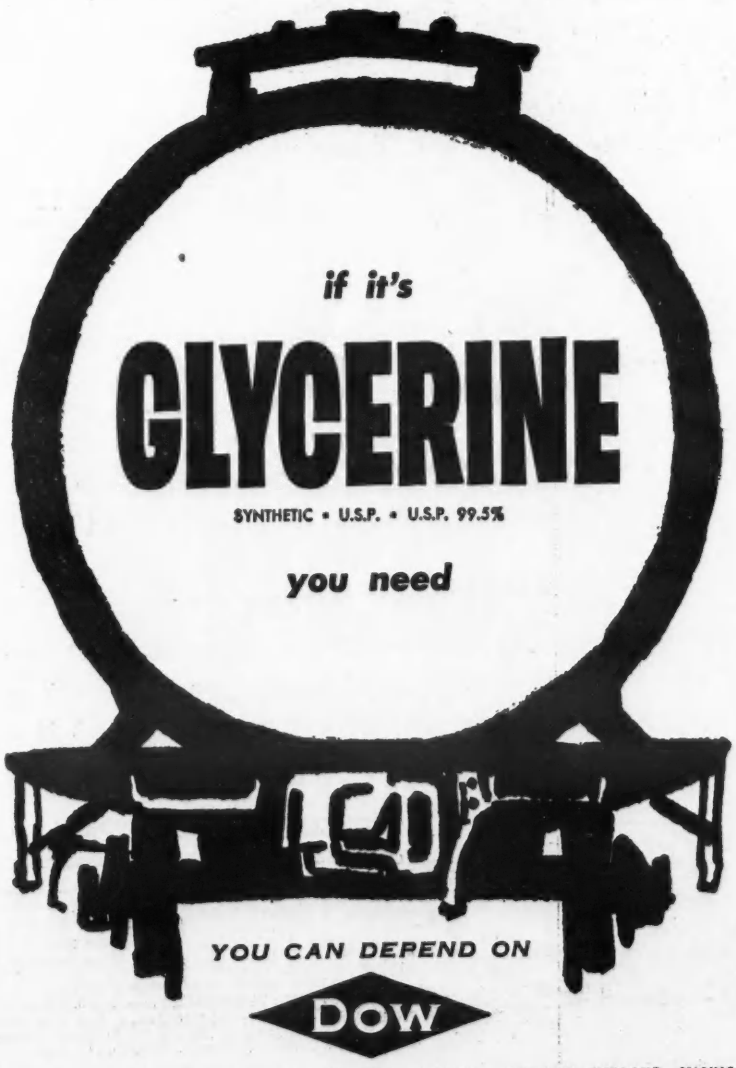

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Aliphatic Organics

what has come to be called "cautious optimism." Most people conversant with market conditions found the immediate outlook good, sales performance over the past three months encouraging. According to one trade member, the majority of the various users of formaldehyde as a raw material, including plywood, furniture and textile outlets, have called for greater quantities since Fall began.

Naturally, it's hoped that the upturn will continue at as fast a clip. Some foresee a let-up, however, believing that demand has been running abnormally high, with customers inventory-building and their confidence in the nation's economic recovery the factors propelling the sales curve.

While it is possible that producers will announce a price advance this week, as has been oft-times rumored, no indication of any pending change in the schedule could be gleaned from trade reports of last week. In fact, opinion seemed to be opposed to any price boost. One trade member, summing up comments heard in other quarters, maintained that tampering with prices is unwarranted at present and believed that producers would be inclined to sit tight on schedules. While it is generally agreed that a correction is overdue, he explained, it would seem to be poor business logic to complicate the picture while both formaldehyde suppliers and end-uses are experiencing a resurgence in demand—which the former could easily stifle or delay by a price hike.

An April 1 price adjustment is thus considered more likely than January 1 action. As was noted at the outset, however, the policy makers in the industry have yet to have their say.

Pentaerythritol—While there are still depressed areas in the market, overall conditions have improved considerably, sellers report, noting additionally that consumption has been running at a greater level since the beginning of Fall. Resurgence of demand for PE reflects primarily greater interest on the part of the large paint houses who use the chemical in alkyd resin manufacture, it was said. Among negative factors cited were the competition from other similarly-used polyols and the increasing popularity of water-based paints.

Despite freight barriers, producers recently did away with zone pricing, the established pattern over many years. In effect, this action amounted to a 1 cent per pound reduction as far as the west coast buyer was concerned. Competitive pressures were behind this for the most part.

According to trade sources, nothing new in the price department is so much as rumored. Last official change occurred October 1 when producers posted advanced prices for mono-, di-, and tripentaerythritol.

It's thought likely that total production of PE this year will be somewhat greater than in '57.

Sebacic Acid—Interest in sebacic acid, which enjoys a diversified end-use pattern, was found to be normal or slightly above normal in a report of last week. With supplies readily available but not in disproportion to demand, future price stability is indicated, observers noted.

Last price change occurred the last of April when a 4½ cent per pound reduction, the result of operating economies afforded by larger volume production, established the carlot quote on purified sebacic acid at 65½c. per pound, works; that of CP material, at 69½c., same basis.

Stauffer Is Made Target Of BFC Export Charges

Bureau of Foreign Commerce last week took action against Stauffer Chemical Company, New York and San Francisco, Milton W. Melander, its export manager in New York, and John W. Cavanaugh, his assistant in charge of Stauffer's export activities in San Francisco, for doing business with a firm whose export privileges had been denied.

Also named in the order are N. V. Transmare Handelmaatschappij of Rotterdam, the Netherlands, the suspended firm, and its manager, H. Aarsen, as well as Walter A. Goldmann and his firm, S. Goldmann & Co., of Bielefeld, West Germany.

BFC's order denied US export privileges to Mr. Goldmann and his firm for one month; to Mr. Cavanaugh for two months, and to Mr. Melander for five months. Thereafter, they are placed on probation for varying periods, ranging from four to seven months.

In its statement, Stauffer reported that the violations were the result of "inadvertence and errors of judgment" on the part of its two employees.

"The proceedings," said Stauffer, "resulted from the shipment of twenty-five tons of boric acid to Holland in 1957. No trans-shipment of the acid to a forbidden destination was involved."

Stauffer further indicated that it has adopted "internal procedures designed to avoid possible further infractions of BFC rules."

Pennsalt Chemicals Correction

Pennsalt Chemicals Corporation, Philadelphia, which last week announced elimination of a chlorine price bracket in the New York area, also reported that cylinders in less than 2,500 pound lots per year would remain at $17.50 per hundred pounds. The company says that 2,500-pound the quantity designation it reported at that time was in error, and that the designation should read "less than 3,600 pounds."

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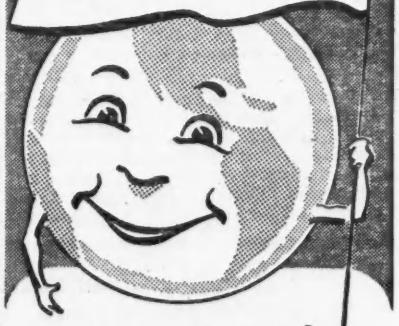

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Petroleum Derivatives

Market conditions in the petroleum solvents have not changed materially in the last two months. There has been a perceptible improvement in business volume, but it is hardly more than perceptible. A better upswing is looked for right after the new year. The situation in aromatic solvents is one in which benzene is abundant, toluene is in fairly comfortable balance, and xylene is plentiful. All straight aromatic solvents are facing a bright outlook for 1959. Partial aromatics are not expanding, and have, in fact, contracted a bit in favor of the lower price structure prevailing on straight aromatic solvents.

Waxes in general are amply available, and moving in good volume in a keenly competitive market. LPG's are said to be moving well under a firm price structure.

The heavy volume of toluene moving into aviation and high octane gasolines is fortunately sufficient to keep supplies down to reasonably good balance with demand. Aliphatic solvents are in amply good supply for prompt shipment.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
104.54	104.54	104.54	106.74

For Current Prices see page 9

Solvents and Diluents

Aliphatic Solvents—Demand is said to be showing some evidence of improvement. However, the increased buying interest, while perceptable, is hardly more than that. Such is expected to be the situation for the balance of this year, and probably running into January, after which some step up in demand is looked for from the paint industry.

Following year-end inventory curtailment, the paint industry usually starts buying in heavier quantities on such things as mineral spirits, and begin building up their line of trade sales paint stocks for Spring shipment.

Price levels currently in effect are expected to carry over into the first quarter. Present price levels are holding up just about as firm as they ever do. Some shading, regardless of supply and demand conditions, seems to go on in certain metropolitan quarters, but there is not now any more than the usual or normal amount of such activity.

Cleaners naphtha, rubber solvent, and the faster evaporating solvents such as VM&P naphtha were plentiful against moderate demand and routine inquiry.

Benzene — There is an ample and abundant supply of benzene from domestic sources to more than take care of the country's needs. The higher level of coking operations for the steel industry has stepped up cokeoven output. Meanwhile the petroleum industry has built up production capacity to a very substantial level, where it is well in excess of current needs.

Such capacity does, however, present a comfortable outlook for the future and is regarded as a good thing for the nation, even though current capacity might not be called on for full scale operation until 1965, according to some estimates. Imports this year and next are likely to be significantly heavier than they had been, due to low priced offerings from communist sources.

Petroleum benzene production is not running at plant capacity primarily for two reasons. One is that there is insufficient overall demand to require full scale operation, and the other is that even if there were such demand, some plants could not operate at capacity for lack of feed stocks.

Lacquer Diluents—Stepped up automotive and other hard goods production is having a beneficial effect on demand for lacquer solvents and diluents. Aliphatic diluents are in quite ample supply to take care of all needs, according to suppliers. Aromatic solvents, where used as partial solvents and diluents, are likewise in good supply. The demand for toluene in aviation gas has made the supply picture on this item in better balance between supply and demand. In certain localized geographical situations, toluene was even said to be a bit snug.

Partial Aromatic Solvents—Activity in the trading of blended solvents has declined substantially since the sharp price drop some months ago in aromatic solvents. With toluene and the several other straight aromatic solvents being marketed at low prices, the economic incentive for buying lower solvency blends has largely been removed.

There are exceptions, of course, where in certain formulations a blend is used because of characteristics of performance other than solvency. From a practical formulating point of view, users of solvents have more flexibility through the use of straight aromatics and selected separate aliphatics in a given formulation. This permits solvent combinations designed to best do a prescribed job.

Toluene—The fortunate very substantial use of toluene in aviation gasoline and other high octane gas, has relieved the previously overproduced and oversupplied toluene market. Currently, toluene from a national point of view is in better balance between supply and demand than it has been at any time since the government ceased taking huge quantities for TNT production. There are certain localized spots where there is a temporary snug position in toluene.

Xylene—There is nothing new to report in this market. Prices are steady and unchanged. Supplies are quite ample to take care of all needs with prompt shipment.

Waxes, Minerals

The wax business is keenly competitive, but is certainly no worse now than it has been all year. This industry is one of very substantial business volume, plentiful supplies, many producers, and is characterized by most of those factors which make for keen selling competition and narrow profit margin pricing. Price shading in certain quarters is always present usually on an individually negotiated basis. These practices, while annoying to the industry in general, is not regarded as sufficient to cause any significant change in presently prevailing schedules.

Miscellaneous

Crude Oil—Production in Saudi Arabia during November totaled 31,026,680 barrels, or an average of 1,034,223 barrels per calendar day, the Arabian American Oil Company announced today. This compares with 30,414,774 barrels, or an average of 1,013,826 barrels per calender day, during the corresponding month last year.

Crude processed at Aramco's Ras Tanura refinery during November amounted to 4,294,884 barrels, an average of 143,163 barrels per calendar day, as compared with 5,205,630 barrels, an average of 173,521 barrels per calendar day, during the corresponding month last year.

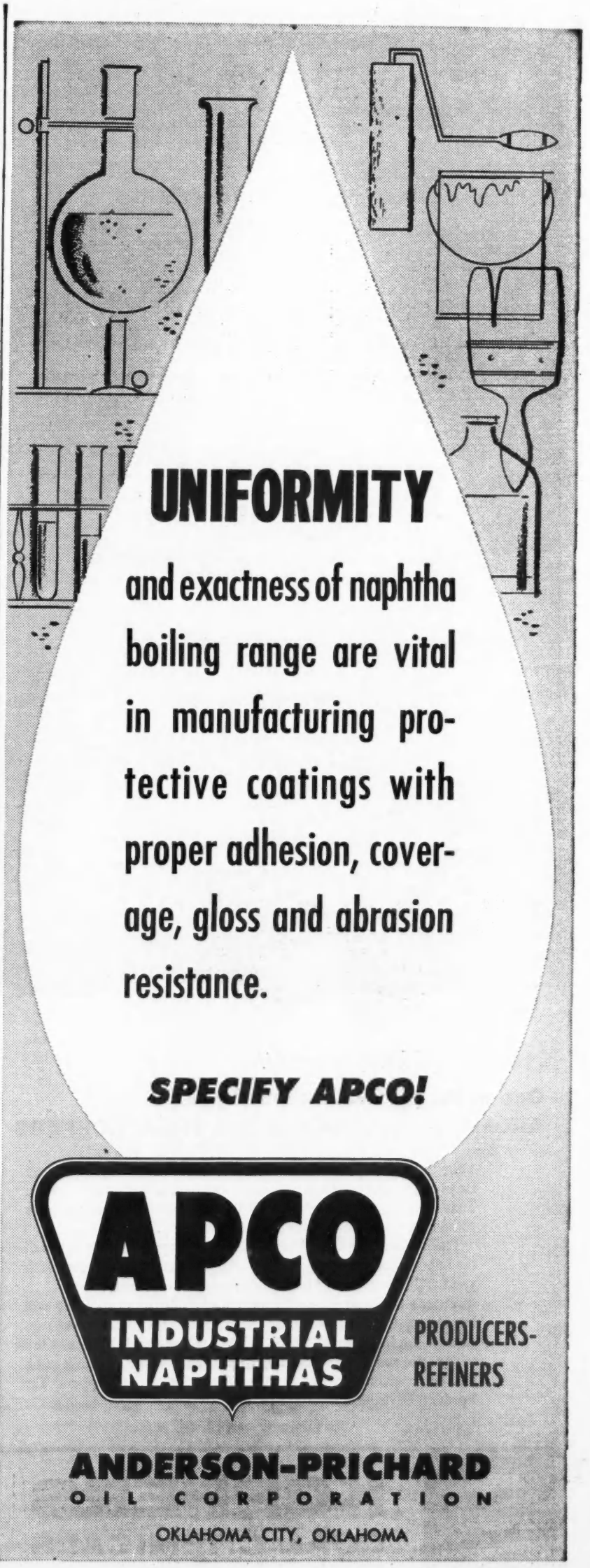
Aramco's total production of crude oil during the first eleven months of 1958 was 338,411,941 barrels, an average of 1,013,209 barrels per calendar day. This compares with a total of 329,470,630 barrels, an average of 986,439 barrels per calendar day, during the corresponding period last year.

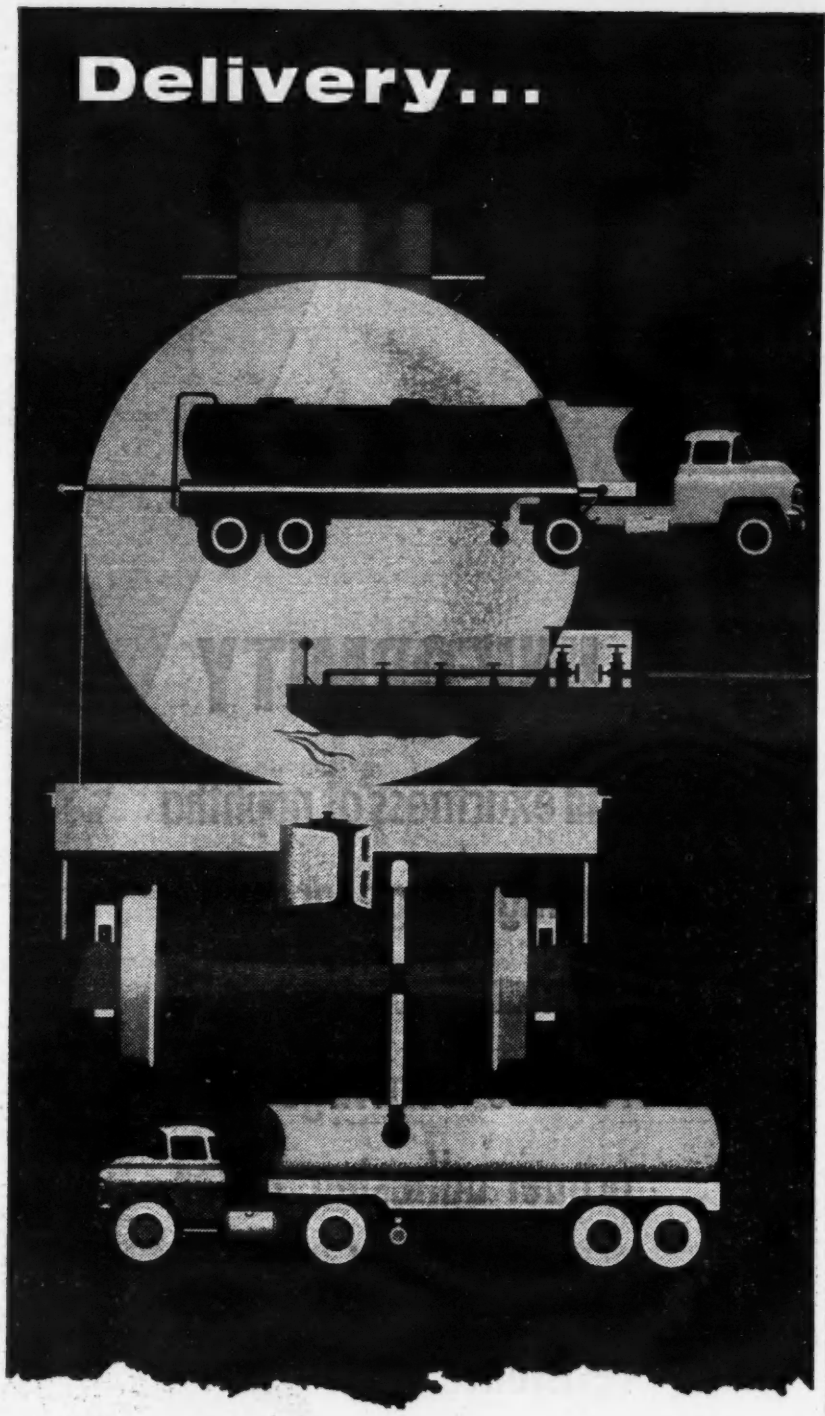
Crude run in the refinery during the first eleven months of 1958 amounted to 56,331,394 barrels, an average of 168,657 barrels per calendar day, as compared with 65,011,160 barrels, an average of 194,644 barrels per calendar day, during the corresponding period, last year.

Forty degree gravity crude was reduced 7 cents per barrel in Oklahoma and 10 cents per barrel in Kansas by two major oil companies.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended November 29 totaled 258,298 barrels, according to data reported by the Bureau of Mines. Compared with the total of 256,294,000 barrels the preceding week, this represents an increase of 2,004,000 barrels comprising an increase of 2,777,000 barrels in stocks of domestic crude and a decrease of 773,000 barrels in stocks of foreign crude.





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Coal Chemicals

Effective today, a major producer will effect reductions on butylated hydroxytoluene amounting to 10 cents per pound on most grades. Technical p-nitrotoluene, cast and flake, was reduced 2 cents per pound across the board on spot and contract. Technical p-toluidine, cast, declined 5 cents per pound in drum lots, and flaked material was reduced 4 cents per pound, same packing. It was also announced that effective January 1, spot and contract prices on technical grade o-nitrotoluene will be advanced 2 cents per pound and o-toluidine will be boosted 3 cents per pound across the board.

Other intermediate changes scheduled for January 1 included o-toluidine, paste and dry base and hydrochloride, advanced 5 cents; technical gamma acid, J acid., and peri acid, all will be increased 25 cents per pound; F salt will advance 20 cents per pound. All increases are effective on spot and contract purchases.

The oxidation step in a process for producing mixed dibasic acids from a mixed xylene stream was in operation and yields were termed excellent, according to report from a mid-west petroleum source last week. The firm indicated that an inventory of mixed acids was being built before proceeding to the purification stage which would yield phthalic anhydride, isophthalic acid and terephthalic acid. It was estimated that top quality material would be produced in the first quarter, although no promises were being made regarding shipping dates.

Price Trends

Advanced
None

Reduced
p-Nitrotoluene, 2c. per lb.
p-Toluidine, dms., cast, 5c. per lb.
Flake, 4c. per lb.

Comparative Price Indexes
(100=1949 average)

week Last	week Prev.	month Last	1957 Dec. 13,
118.49	118.50	118.52	118.13

For Current Prices see page 9

Jan. 1 Price Advances

F salt, 20c. per lb.
Gamma acid, 25c. per lb.
J acid, 25c. per lb.
Peri acid, 25c. per lb.
o-Nitrotoluene, 2c. per lb.
o-Tolidine, base and hydrochloride, 5c. per lb.
o-Toluidine, 3c. per lb.

Tar acid markets have been moving in good volume, although some of the business has not been too attractive, according to reports. Inventories were in better shape on meta-para fractions. A check on growing supplies of the latter has been added use in blends.

American Iron and Steel Institute estimated that steel production in the week ended December 14 would amount to 74.7 percent of theoretical capacity equivalent to 2,015,000 net tons of steel. Output was 1,985,000 net tons in the week previous, 2,011,000 in the comparable week one month ago and 1,770,000 in the corresponding week one year ago.

Shipment of finished steel products in October were nearly 16 percent more than in the previous month and the highest since October a year ago. Shipments in the first ten months totaled 49,226,073 net tons as against 69,155,531 in the ten month period last year.

Basic Products

Benzene—Consumption in BTX markets has leveled off and was expected to remain quiet over the balance of the year. Consumers were expected to continue a careful buying policy in the new year, as all solvents remain in fully adequate supply for prompt shipment. Price was unchanged at 31c. per gallon. Last price change was a 5c. per gallon reduction put into effect in July of this year.

Cresols—Producers reported unchanged prices from those levels in effect for many months. Inventories were in better balance than was the case earlier in the year. One outlet is through added use of meta-para fractions in blends, it was said. However, there was still plenty of material on hand. Export market has been poor for some time.

Cresylic Acid—Price was firm and expected to hold to current levels over the first part of the new year. Volumewise, movement fell somewhat behind other coal chemicals which began to show strength in August. However, October and November were both good months, according to reports of domestic producers and importers alike. One importer said his firm had moved more acid in November than in any preceding month and that stocks were trimmed down considerably. Supplies remained adequate for trade requirements. Cresylics moving to makers of component parts for the auto industry were showing better tone, it was said.

Toluene—Demand has leveled off in this market after freshening interest in October and November. It was felt that some petroleum makers might find themselves in the paradoxical position of having to seek additional supplies of toluene if they wish to participate in the government's buying program. Government needs are known, in general, six months to a year ahead of time. However, it was pointed out that specific needs for immediate shipment may be made at a time when stocks on hand are relatively low, although capacity to produce is fully adequate. The situation may come about as a result of petrochemical producers leaving much toluene in the gasoline stream rather than recovering all of it to take up storage space.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending December 14 was as follows.

Ammonium liquor	lbs.	595,332
Ammonium sulfate	lbs.	32,637,447
Benzene	gals.	3,228,024
Coaltar	gals.	15,850,628
Crude chemical oil	gals.	410,117
Solvent naphtha, crude, heavy solvents	gals.	105,836
Toluene	gals.	687,939
Xylene	gals.	196,444

Intermediates

Butylated Hydroxytoluene — Effective today, a major producer announced reductions in this market amounting to 10c. per pound on most grades.

On technical material, new price in tanks will be 79c. per pound, a reduction of 7c. over previous schedules. In carload lots, the price will be 81c. per pound, a decline of 10c., and in less carload lots, new price is 83c., a decline of 9c. per pound. Prices are quoted on a delivered basis.

Microground feed grade, will be 97c. in 50-pound drums, delivered and food grade will be $1.10 per pound in 100-pound drums, same basis. This amounts to a 10c. per pound reduction over previous prices.

F Salt—Effective January 1 on spot and contract, price will be advanced 20c. to $2.30 per pound on technical F salt.

Gamma Acid—Effective January 1 on spot and contract, price will be advanced 25c. to $1.75 per pound for dry technical gamma acid.

Hydroquinone—Price was unchanged on technical material at 82½c. per pound in carload lots and 84½c. per pound in less carload quantity. An advance in photo grade material had no effect in this market. Photo grade listed in a range of $1.10 to $1.13, as to quantity.

J Acid—Effective January 1 on spot and contract, price on dry technical acid will be advanced 25c. to $2.75 per pound.

o-Nitrotoluene—Effective January 1 on spot and contract, the price of this material will be increased 2c. per pound across the board.

New price on tankcar lots will be 13c. per pound; carload or truckload of drums, 15c. per pound, and less than carload or truckload lots, 16c. per pound.

p-Nitrotoluene—Price was reduced 2c. per pound across the board last week. Car-

Coal Chemicals

load or truckload price of flaked technical material was established at 27½c. per pound and drum lots were newly quoted at 28c. per pound. Cast technical p-nitrotoluene was pegged at 26½c. per pound in tankcar lots, 27½c. for carload or truckload of drums, and 28c. per pound for less carload or truckload quantities.

Nonylphenol — A reduction of 2c. per pound on octylphenol two weeks ago had no effect on nonylphenol or dodecylphenol. Price listings on the two latter items are identical. Tanks were quoted at 19½c. per pound; carload, 22c.; and less carload, 23c. per pound, frt. allwd.

Pentachlorophenol — Market was unchanged from previous report. Material was moving in fair volume, but producers of this material have suffered along with makers of other wood preservative chemicals as a result of a slump in railroad buying. A ¾c. per pound drop in phenol price had no effect in this market, sources said.

Peri-Acid—Price will be advanced 25c. to $1.60 per pound, effective January 1 on spot and contract.

Phthalic Anhydride—A mid-west petroleum source reported that the oxidation or chemical conversion step in a new process for producing phthalic anhydride and isophthalic and terephthalic acids from a mixed xylene stream had been completed and successfully placed in operation. Yields of mixed acids from the mixed xylene feed stock were termed "excellent" and production of satisfactory quality phthalic was anticipated for the middle of December.

An adequate inventory of mixed acids was being built before proceeding through the purification or physical separation step. It was felt that both conversion and separation steps are equally "touchy" and no untoward development was expected to delay production of top quality phthalic in the first quarter of 1959. The usual "plant start-up" problems could be expected, it was said.

Sources estimate that a 17c phthalic price would mean an annual gross loss to producers of about $14-$16 million. It was pointed out that actual manufacturing costs on any process usually turn out to be higher than estimates, lending strength to the belief that a 17c. price could not hold over many months. Other sources discounted this view.

o-Tolidine—Effective January 1 on spot and contract, prices in this market will be advanced 5c. per pound across the board. Under new schedules, technical o-tolidine, dry base, will be $1.55 per pound; paste base will be $1.50 and o-tolidine, technical, hydrochloride, will be $1.50 per pound.

o-Toluidine—Effective January 1 on spot and contract, the price of this material will be advanced 3c. per pound across the board.

New price on tankcar lots will be 28c. per pound; carload or truckload, 30c., and less carload lots, 31c. per pound.

p-Toluidine—Cast technical material, in drum lots, was reduced 5c. to 45c. per pound and flake material declined 4c. to 50c. per pound.

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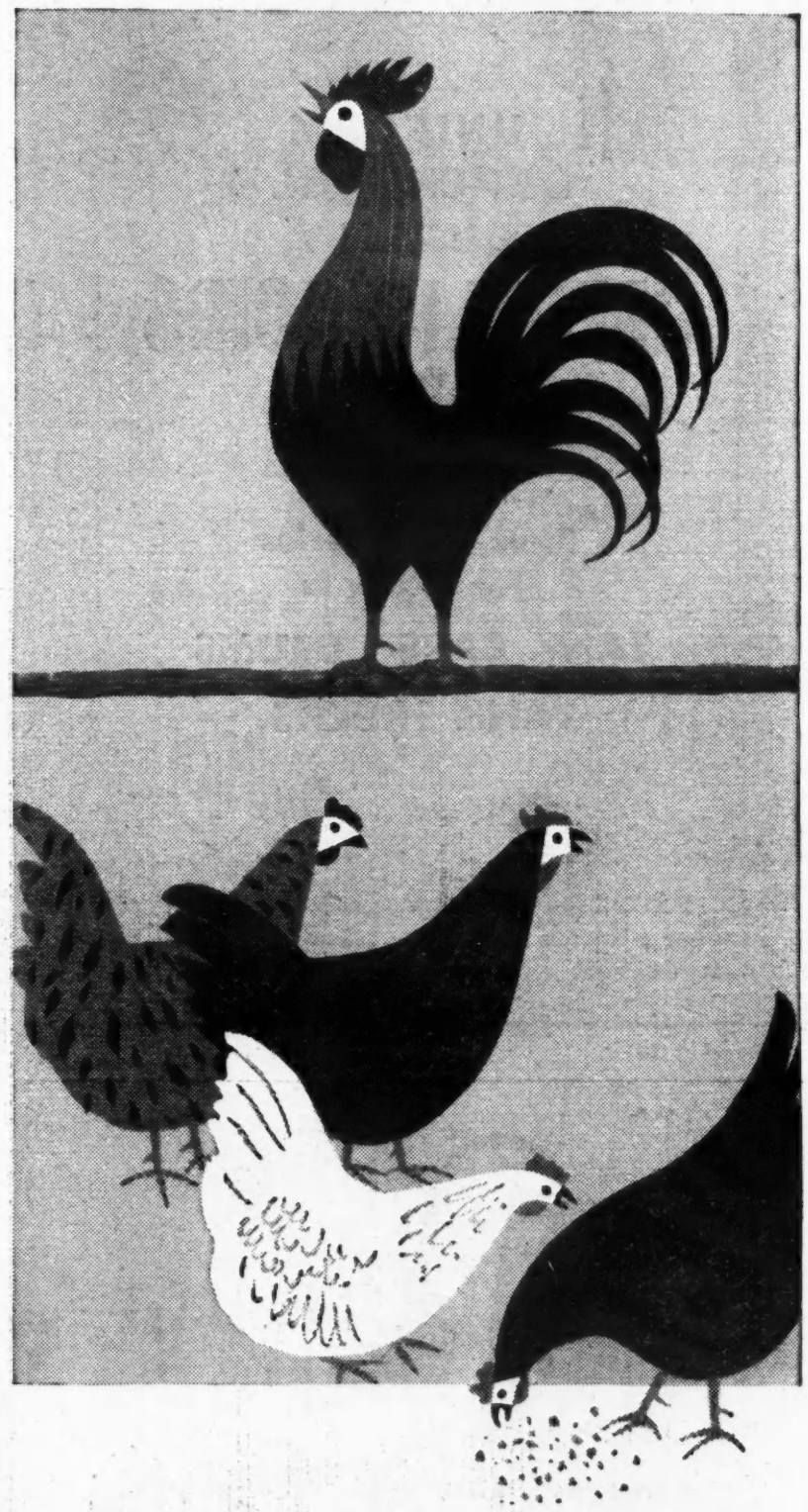

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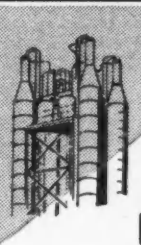

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—*Continued from page 3*

siderably improve the usefulness of the series.

Chemical industry intentions during the first three months of 1959 are to spend $302 million on new plant and equipment. This compares with an estimate for the last quarter of this year of $342 million and actual expenditures during the first quarter of 1958 of $340 million. For the current year, taking into account the probable miscalculations of estimates for the last three months and actual expenditures during the first three quarters, total capital expenditures of the industry should amount to $1.34 billion. This compares with $1.724 billion in 1957 and $1.455 billion in 1956.

All-Industry's Plans

For all industry, plans covered by the survey indicate expenditures for new plant and equipment at seasonally adjusted annual rates of $30 billion in the last quarter of this year and $30.5 billion in the first quarter of next year.

Actual expenditures in the third quarter of 1958 were at the rate of $29.5 billion, a decline of more than $8 billion from a year earlier, and if fourth quarter programs are realized, capital outlays for the full year 1958 will amount to $30.5 billion—17 percent lower than the record outlay of $37 billion for 1957.

The total is slightly below that scheduled three months ago, and almost $1.5 billion lower than the figure anticipated in the regular annual survey last March. Manufacturing industries accounted for practically all the downward revision from anticipations made at the beginning of this year.

Capital outlays for manufacturing firms in 1958 are estimated at $11.5 billion, 28 percent less than the record $16 billion of last year. Realization of the currently reported anticipations would start the year off at a seasonally adjusted annual rate about four percent below the 1958 total.

The low point in the 1957-58 decline, it was stated, appears to have been reached in the second half of this year.

Durable goods companies have scheduled a slight pickup in spending in the first quarter of 1959; outlays by non-durable goods industries are expected to remain at about the second half 1958 rates.

Buyers Plan to Spread

—*Continued from page 7*

chinery & Chemical Company, New York; "Chemical Materials of the Future," by Homer H. Ewing, E. I. duPont de Nemours & Co., Wilmington, Del.; "Evaluation of Chemical Buying Performance: Management's View," by J. McLain Stewart, McKinsey & Co., New York, and "Cost Analysis-Elements Makeup and Use," by A. E. Bogen, Chemstrand Corporation, Decatur, Ala.

A panel discussion is planned on the topic, "How to Obtain Full Value From Our Suppliers."

In Chicago the topic will be discussed by G. C. Bradshaw, Mallinckrodt Chemical Works, St. Louis, Mo.; Bruno Gherardini, J. T. Baker Chemical Company, Phillipsburg, N. J.; Tom Dabovich, Morton Chemical Company, Chicago; C. D. Jones, Diamond Alkali Company, Cleveland, Ohio, and E. F. Swanson, Abbott Laboratories, North Chicago, Ill.

The group participating in New York will include: John Zacharias, McKesson & Robbins, Inc., New York; W. Ward Jackson, Commercial Solvents Corporation, New York; H. Kent Vanderhoef, Kay-Fries Chemicals, Inc., New York; Eric Johnson, Chas. Pfizer & Co., Brooklyn, N.Y., and A. J. Ratichek, Vick Chemical Company, New York.

Arsenic Role

—*Continued from page 4*

reached the point where it is considered negligible.

The only current recommendation from USDA, it develops, for using an arsenical preparation on tobacco for control of an insect pest is that recommended in "Farmers' Bulletin No. 1531."

The publication suggests using lead arsenate corn meal bait to control tobacco bud worm. However, the bulletin is to be revised to either eliminate the recommendation or point out that use of arsenicals may cause the tobacco to be unmarketable.

USDA stopped recommending arsenicals on tobacco early in 1953 after the British government threatened to place an embargo on US tobacco because of excessive arsenic residues. States where flue-cured tobacco is grown do not recommend arsenicals in tobacco raising, it was pointed out.

"USDA Leaflet No. 399," covering the control of hornworms on tobacco, states that economically harmful deposits of lead arsenate remain on leaves after its application to tobacco. It also points out that insecticides other than endrin and TDE (the recommended materials) may reduce the economic value of tobacco.

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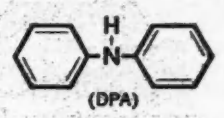

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Chemical, Drug Outlook for 1959 Wonderful

—Continued from page 7

hind the year-earlier level. The third postwar recession has proved somewhat more difficult for the industry.

"In the first quarter of 1958, chemical profits ran 26 percent behind the 1957 rate. But the 1954-55 recovery was sharp. By the end of 1954, earnings were approaching previous peak levels. Pre-tax profits in 1955 were almost 40 percent higher than those of 1954.

"It should be realized, however, that the two periods differ in many important respects. Comparisons based solely on the historical record are therefore apt to be misleading. Because of the problems outlined above, a somewhat less dramatic recovery appears likely for 1959."

Future Bright for Drugs

When it comes to the outlook for the drug people, this is what the "Value Line" has to say:

"As in each year since 1953, substantial growth in volume and earnings appears to be in store for 1959 and many years to come."

Sales and earnings growth for this year will not be up to the levels of last year, says the report, but that will be largely due to the influenza epidemic impetus that was given to 1957's business.

"However, the industry's abiliy to rise above the extraordinary gains of last year reflects a strong upward momentum—partly because of the rapid expansion of foreign operations but primarily due to the continuous outpouring of new and more effective drugs."

Here are some of the comments the review has on the current drug year, which give an indication of which way the wind is blowing:

"The earnings of the pharmaceutical companies, particularly the ethical drug producers, have been little affected by the recession of 1957-1958. Nor have the prices of these equities been hurt by government antitrust charges of price fixing and other monopolistic practices. In response to higher dividend payments and the persistent uptrend in profits, the prices of this group have registered an advance of almost 100 percent within the past two years.

"Although drug industry results for the July-September, 1958 period were mixed, there is little doubt but that the strong sales uptrend that has characterized this group since 1953 is continuing. Both the ethical and proprietary groups managed to eke out a 4 percent increase in the third quarter over the bulge in volume caused by the nationwide epidemic of influenza in the like period of 1957.

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Meetings

Air and Water Pollution Abatement Conference, sponsored by Manufacturing Chemists' Association, Netherlands Hilton hotel, Cincinnati, Ohio, March 17-18.

American Chemical Society, national meeting, Boston, Mass., April 5-10.

American Institute of Chemical Engineers, Chalfonte-Haddon Hall, Atlantic City, N. J., March 16-20.

American Oil Chemists Society, spring meeting, New Orleans, La., April 20-22.

American Pharmaceutical Association, annual meeting, Netherlands-Hilton hotel, Cincinnati, Ohio, August 16-23.

American Society for Testing Materials, committee week, William Penn hotel, Pittsburgh, Pa., February 2-6; annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 21-26.

Association of American Soap & Glycerine Producers, annual convention, Waldorf-Astoria hotel, New York, January 20-22.

Chemical Buyers Group of National Association of Purchasing Agents, midwinter meetings, Congress hotel, Chicago, January 22; Commodore hotel, New York, February 3.

Chemical Market Research Association, textile chemicals meeting, Dinkler Plaza hotel, Atlanta, Ga., February 18-19.

Chemical Progress Week, April 13-17.

Compressed Gas Association, annual meeting, Waldorf-Astoria hotel, New York, January 19-20.

Drug, Chemical & Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 5.

Electrochemical Society, Sheraton hotel, Philadelphia, May 3-7.

Essential Oil Association, annual meeting, Savoy Plaza hotel, New York, January 9.

National Petroleum Association, semi-annual meeting, Cleveland hotel, Cleveland, Ohio, April 15-17.

Oil Trades Association of New York, Waldorf-Astoria hotel, New York, January 22.

Packaging and Transportation Symposium, sponsored by Manufacturing Chemists' Association, Engineering & Scientific Center, Cleveland, Ohio, April 29-30.

Parenteral Drug Association, dinner meeting, Statler hotel, New York, February 6.

Petroleum World Congress, Coliseum, New York, May 31-June 6.

Pharmaceutical Manufacturers Association, central regional meeting, Edgewater Beach hotel, Chicago, February 9-11; western regional meeting, Ambassador hotel, Los Angeles, February 16-17; annual meeting, Boca Raton Club, Boca Raton, Fla., April 1-3.

Society of Chemical Industry, American section, Perkin medal dinner, Waldorf-Astoria hotel, New York, January 9.

Society of Plastics Industry, reinforced plastics conference, Edgewater Beach hotel, Chicago, February 3-5.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, January 13.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 12-14.

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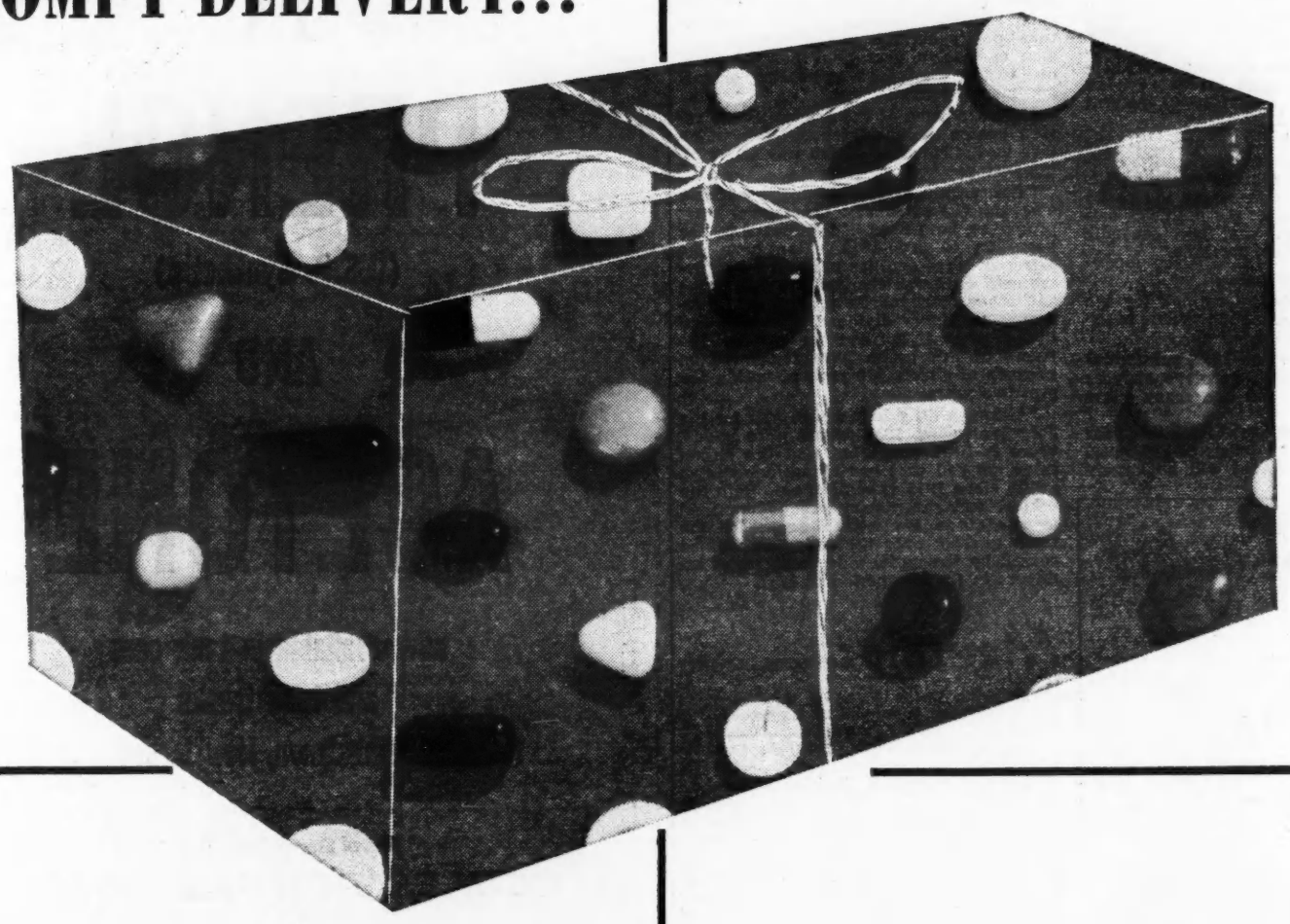

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Drugs, Fine Chemicals

A major producer announced lower prices on vitamin B_{12} products, effective December 12. Cyanocobalamin, USP, formerly booked at $190 per gram, was reduced to $163, while cobalamin concentrate NF and a solution of cobalamin concentrate became $150 and $160 per gram, respectively—both dropped $10. At the same time, cyanocobalamin in trituration, 0.1 percent, was reduced to $188 per kilo from $218. Excepting the revision in B_{12} listings, there were no other price developments last week; in fact, trade reports hinted that the drug industry contemplated little if any price action for first of the year. Imports could pressure reductions, market observers noted, for such chemicals as ascorbic acid, thiamine, and pyridoxine hydrochloride, but sources dismissed the predictions as unfounded. Prices on these materials are already low and imports are being readily absorbed here, they explained.

Price Trends

Advanced
None

Reduced
Vitamin B_{12}, crystalline, $27 per gram.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
61.98	62.52	62.54	63.22

For Current Prices see page 9

Single instance where the pendulum seemed to swing toward a price advance was brucine, an alcohol denaturant that has been in very tight supply for some time.

Aspirin producers, admittedly discouraged that the sales curve has not hit last year's peak, are nonetheless finding demand very active. Forward orders, according to one source are, however, of somewhat less than expected size, reflecting the user's reluctance to buy beyond his sales performance of the previous month. Factors in play here were, of course, that a flu outbreak is not expected this winter—or so governmental medical authorities say—and that users started to build up inventories back last summer, which was a new pattern. It appeared that no price changes have been projected for the first quarter of '59.

Meeting in New York last week, the Pharmaceutical Manufacturers Association heard a proposal by one of its foremost members that the government adopt policies that will permit US industry to compete with the Communist economic threat on a world-wide basis. The real battleground in this economic war, the speaker located in the underdeveloped countries where "private industry's efforts must inevitably be limited by the need to protect stockholder investment." Thus, he suggested that a percentage of the present foreign aid budget be diverted to American industry for long term loans at low interest rates so that American firms could develop markets in these countries. Others in the drug trade and in other industries as well will most certainly second this proposal.

Acetophenetidin—Shipments have been in good volume over past months and promise to continue so to packagers of APC compounds. Nothing is in the wind price-wise and, in fact, all indications are that listings will continue unchanged into next year. Producers report adequate inventories.

Antibiotics—Widespread use of antibiotics which has led to neglect of ordinary antiseptic procedures in hospitals and institutions and thence to the development of resistant staphydoccoci strains has resulted in a rebirth of interest in several old-line germicides. Among these is o-benzolparachlorophenol (tradenamed by a producer Sanofen I).

Aspirin- The sales curve has not risen so spectacularly this year or so fast, trade members report, adding that November's mark was considerably below that of last year. And no immediate jump in sales is anticipated. Forward orders (for January), it's said, indicate that customers are contracting pretty much on the basis of sales performance. Obviously, no one's figuring on a flu outbreak such as occurred a year ago.

Also accounting for the lower volume of shipments in November and so far in December, two of the biggest months normally, is that buyers early built up substantial inventories—starting in August—it was explained.

Producers have adequate stocks on hand and shortages are not anticipated. There appears to be little likelihood of a January 1 price advance.

Calcium Cyclamate—Effective December 4, producers put through across-the-board reductions amounting to 55 cents per pound for both calcium and sodium cyclamates. The revised schedules were set-up as follows: 100-pound drums, $1.95 per pound; twenty five pounds, $2.45, and five pound lots, $2.70. Sources ascribed the quite substantial price cut to competitive influences, mainly the ready availability of imported material.

Non-caloric sweeteners, calcium and sodium cyclamates are employed in a wide variety of dietetic foods and in pharmaceuticals. Former application has swelled requirements for the chemicals, it's said, as more and more people have become conscious of weight and waistline.

Since their commercial introduction about four years ago, the cyclamates have successfully invaded what had been up till that time a saccharine-dominated market. Continued growth is looked for.

Gelatin—The Census bureau reported total gelatin production in October at 5,074,000 pounds, against 4,485,000 the previous month; shipments at 4,952,000 compared with 5,067,000, and end of month stocks at 12,276,000 versus 12,154,000 pounds in September.

Classified by type, October production of pharmaceutical grade gelatin amounted to 270,000 pounds, with shipments of 190,000,leaving end of month stocks at 844,000 pounds. The preceding month, output totaled 207,000 pounds, shipments 343,000, stocks 764,000.

Since October, unofficial reports find the market pretty much unchanged. A slight seasonal increase in sales volume was noted, however.

Reportedly, some large chunks of business continue to go at below book-prices. Import pressure, particularly in the East, remains a pertinent factor. It's felt that the price could go lower, but at the expense of certain producers who would almost have to abandon production or maintain operations as a sideline. Such, for example, is the case with meat packers.

Mercurials—Pharmaceutical usage of mercury amounted to 665 flasks (of 76 pounds) during the July-September period, compared with 947 in the previous quarter and 350 flasks, January through March. On the other hand, consumption in dental preparations exhibited the opposite trend—rising from 313 flasks in the first quarter of '58 to 365 and 389 flasks in the two succeeding quarters.

General laboratory use of mercury dwindled to 188 flasks during the third quarter, from 192 in the previous 3-month period and 303 in the opening quarter of '58.

Above figures were issued by the Bureau of Mines, which reported that more mercury was produced in the US in July to September, 1958, than in any other comparable period since World War II. Output during the third quarter totaled 9,800 flasks, compared with 9,400, April to June and 10,100, April to June, 1944.

Methapyrilene—OPD this week adds quotations on methapyrilene fumarate and methapyrilene hydrochloride to its extended list of Prices Current.

For the fumarate salt, the price is $21.75 per pound, for quantities of from 100 to 999 pounds, packed in 100-pound drums. The similar listing for the hydrochloride is $27.25.

According to a recent trade report, interest in both fine chemicals is moderate with antihistamine preparations and nonprescription sleeping tablets constituting the principal volume outlets.

Phenylpropanolamine—Material is produced as the hydrochloride and sources said trade interest has been good. As a nasal decongestant, phenylpropanolamine acts to control perennial hay fever and bronchial asthma in the manner of ephe-

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Drugs, Fine Chemicals

drine. However, its action is said to be more prolonged than that of ephedrine and less likely to produce anxiety complex as a side reaction. Phenylpropanolamine also acts as an appetite depressant or adjunct in dietary control of weight.

Sodium Cyclamate—Listings were cut 55 cents per pound, effective December 4. This setup the new schedule at $1.95, 100-pound drums; $2.45, 25-pound drums, and $2.70 per pound for 5-pound quantities. Interest in this non-caloric sweetener is said to be growing but at the same time meeting increased competition from foreign offerings.

Vitamin B12—A major producer announced lower prices on vitamin B-12 products, effective December 12. Under the new schedule, cyanocobalamin, USP, formerly booked at $190, became $163 per gram; cobalamin concentrate NF $150 and a solution of cobalamin concentrate $160 per gram, both down $10; while cyanocobalamin in trituration, 0.1 percent, became $188 per kilo, a cut of $30.

Botanicals

Demand for domestic botanicals is reported to be seasonally routine with most buyers reluctant to take much material into inventory, prefering to show capital on end-of-year statements. As a result, prices have settled down. Recent changes noted included reductions in mandrake root, down 3 cents, to a range of from 45 cents to 48 cents per pound in bales, and senega root, down 10 cents, to $2 per pound also in bales; and a 10 cent per pound advance in lobelia herb from 45 cents to 55 cents.

Cascara Sagrada Bark—New crop was bringing 30c. per pound in bulk. Supply was ample, buying somewhat listless. At 33c., '57 crop was subject to moderate interest and also readily available.

Juniper Berries—New crop juniper berries from Italy are now available but so far the additional supply has had no disturbing effect on the price which continues at 15c. per pound.

Lobelia Herb—More and larger quantity buying, tightening up on supplies, has strengthened the lobelia herb price listing. Latest quote was reported to be 55c. per pound, up 10c. from the former listing.

Mandrake Root—Current prices range from 45c. to 48c. a pound in bales, down 3c. from the previous listing. Material, which is available but not as plentiful as other of the botanicals, is attracting normal end-of-year interest, according to a dealer's report of last week.

Senega Root—Trade sources find buying interest has slackened off, which is typical of the season, and expect to see no really strong revival of interest before next year. Current price, recently dropped 10c., is $2 per pound in bales.

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Chemical Firm's Curiosity and Initiative

—Continued from page 5

Babbitt, Inc., with Connecticut Chemical Research in 1955.

While emphasizing that the report is simply the result of a study by Prof. Friedman and in no sense represents or carries the endorsements of the subcommittee, Sen. O'Mahoney commented:—

"A reason frequently given for intercorporate acquisitions and mergers, is that such transactions can make possible more extensive, effective, and diversified research and development. In a society that puts increasing emphasis upon technological development, and in an economic atmosphere characterized by starting activity on the merger and acquision front, it is more important that we learn more about the interrelationship of the two."

Prof. Friedman reached five conclusions in his study:—

1. The acquiring company may wish to obtain an established patent base in the new field it is entering.

2. In other cases, the acquiring company may be interested not so much in the existing patent position of the acquired company as in the quality of its research and development organization and the potential capacity of experienced technical personnel to produce technical innovations of value in the field of activity concerned, whether or not such innovations are patentable.

3. In many cases, the focus of interest for both acquiring and acquired companies is the opportunity for complementary product diversification, permitting a broader product line than each separately is in a position to offer.

4. In some cases, the large capital resources of the acquiring company provide an opportunity for the large concern to reap the benefits of technical pioneering by a smaller firm which lacks the funds to develop commercially the profitable opportunities made possible by a successful research operation.

5. Sometimes the research and development factor works in reverse. For example, a corporation may itself have an extensive research operation which has produced, or is capable of producing, new products or processes in fields not directly related to those in which the corporation is engaged. By acquiring a firm with an existing market position in such other fields, the larger firm is placed in a better competitive position to exploit its own research achievements with a minimum investment in the development of the necessary production and distribution organization.

Biscayne-Gallowhur

—Continued from page 5

omist and a director of Lehman Corporation; Julius Fleischmann, of Cincinnati and New York; Carson McClain, of E. I. duPont de Nemours & Co., and Mr. Gallowhur.

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Mr. Gallowhur is president of Biscayne-Gallowhur Corporation. Headquarters will be in New York.

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Penick, New York Quinine Moving Headquarters Offices

The general offices of S. B. Penick & Co. and its New York Quinine & Chemical Works division will move to 100 Church street, New York, on January 1.

The move is being made to modernize the company's facilities and to consolidate its operations. Telephone number for both Penick and NYQ will remain the same. The teletype number for both Penick and NYQ will be TWX NY 1-3461.

Since 1940 Penick has been located at 50 Church street, where NYQ joined the parent company in 1951.

An historical coincidence has been disclosed in connection with the new location. Penick's first offices in New York City, established in 1915, were located at 45 Barclay street. That building occupied part of the site on which 100 Church street now stands.

Pfizer's Foreign Chief

—Continued from page 7

that it will sell under cost for political purposes, that it will use inflation as a political weapon, that it will extend long-term, low-interest loans, that it will even build entire industries in countries which are its targets—employing technics with which private industry cannot possibly compete," he said.

Mr. Powers made his comments in concluding a panel discussion on the international trade scene, of which he was chairman. Other participants were Dr. A. T. Knoppers, president of Merck Sharp & Dohme International; G. F. Roll, directo of public relations for Smith, Kline & French Laboratories; and John Strohm, a journalist who recently returned from an extensive trip through Red China.

Prosperous Year Predicted

In another speech, this one on the overall US economy, the chairman of the finance committee of Vick Chemical Company, New York, predicted that the coming year will be the most prosperous that this country has ever seen.

Turning his attention to the pharmaceutical industry in particular, Donald B. Woodward pointed out that the volume in that section of the chemical industry has grown in the past twenty years at a rate about double that of the gross national product.

Contributing to this trend, he added, are the factors of continuing increase in per capita income, a large proportion in our population of children and older people who use more pharmaceuticals than other age groups, large and growing research expenditures, and the rapid expansion of the industry abroad.

"The present and continuing vigor of the pharmaceutical industry," Mr. Woodward declared, "is attested by the fact that it continued through the past recession all but unaffected and will achieve a new high in total volume this year—an achievement few industries have made."

Award to Larrick

A feature of the meeting was the presentation of the 1958 Pharmaceutical Manufacturers' Award to George P. Larrick, Commissioner of the Food and Drug Administration.

Commissioner Larick was cited for "long and devoted service" and his "many contributions in the public health field." The award was presented by George F. Smith, PMA president and head of Johnson & Johnson.

Thermoid Okays Merger Into H. K. Porter Company

Stockholders of Thermoid Company, Trenton, N.J., last week approved merging their company into H. K. Porter Company, Pittsburgh, Pa., Nearly 81 percent of Thermoid's shares were voted in favor of the merger.

Warren E. Hill, Thermoid's president, said the merger became effective December 12. Porter stockholders approved the plan earlier this week.

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Data Offered

A twelve-page brochure entitled **"Neomycin as an Important Adjunct in the Treatment of Cirrhosis of the Liver"** may be obtained by writing the research division of S. B. Penick & Co., 50 Church street, New York 8.

Safe handling practices for phosphorus pentasulfide are described in a new fourteen-page safety data sheet (SD-71) just issued by the Manufacturing Chemists' Association. Copies are available at 30 cents a copy from MCA, 1625 Eye street, N. W., Washington 6, D. C.

A new sixteen-page booklet, **"Acryloid Acrylic Ester Resins for Coatings"** is available on request from Rohm & Haas Company's resinous products division, Washington Square, Philadelphia 5, Pa. The booklet presents tables of the properties, compatibilities and uses of these acrylic polymer solutions.

Union Carbide Chemicals Company, division of Union Carbide Corporation, 30 East 42nd street, New York 17, is offering a new booklet on **aldehydes** and a newly-revised twelve-page technical information sheet on **propionaldehyde.** The aldehydes publication, which replaces an earlier compendium on the subject published by Carbide in 1953, includes data on these new commercial products: Propionaldehyde, glutaraldehyde and acrolein dimer. The propionaldehyde data sheet discusses its applications in the resin, pharmaceutical, rubber chemical, perfume and flavor and photographic chemicals industries.

A new product manual on duPont's **"Lorol" fatty alcohols** has been published by the polychemicals department of E. I. duPont de Nemours & Co. The forty-eight-page, hard-covered technical encyclopedia covers the physical and chemical properties of pure fatty alcohols, characteristics of duPont's eight standard types of "Lorol," current major and minor uses and considerable statistical data. Copies may be obtained at $1 each by writing R. C. Molden, duPont polychemicals department Fairfax, Wilmington 3, Del.

Complete specifications on the five groups of **fatty nitrogen derivatives** produced by the General Mills' chemical division are contained in a new literature piece which may be obtained from the division at Kankakee, Ill.

Dow Chemical Company has published a new book on **ion exchange,** its principles, applications, test procedures and laboratory technics. Entitled, "Dowex: ION Exchange," the bound, seventy-five-page volume is intended for use by the process engineer and laboratory scientist seeking a ready reference on ion exchange technology. Application technics in chemical processing are described, with illustrations of laboratory equipment used. Copies of the book are available to company departmental libraries. Inquiries may be directed to Dow's engineering chemicals sales, Midland, Mich.

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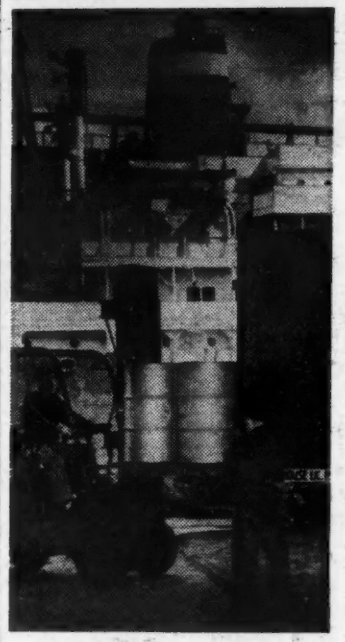

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Essential Oils, Aromatics

Essential oils dealers reported they were maintaining normal volume shipments during December. With Christmas buying out of the way, things were expected to be a bit slow for the balance of the year. However, withdrawals in small lots for immediate shipment gave needed support to the market. Patchouli oil was easier and quoted at $4 per pound on large drums. Rosemary, Spanish, of NF quality, was down 5 cents, while cedarwood oil eased to 53 cents against previous quotations 2 to 5 cents per pound higher. Mint oils held to previous listings. Peppermint market has been soft as a result of crop approximately 10 percent above last year and the exact opposite was true of spearmint. Prices on abies siberica were unchanged after a weakening trend in recent weeks.

Florida orange oil was unchanged, but the trend was downward. Bois de rose and citronella showed no improvement. A softness in these oils has been reflected in a number of aromatics derived from the parent oils. Ocotea cymbarum was held at current low levels and sources contacted anticipated little change in the weeks ahead. Geranium remained a strong spot in the oils market, despite a report that a second small cutting had caused a slight reduction at origin.

Vanilla beans were in a very strong position. Prices advanced on report of firm holdings in Madagascar and the Reunions and poor crop prospects for early next year. Whether price would advance further was felt to rest with large extract manufacturers. Some trade sources felt extract makers would not contract for any large tonnage at the current high levels, but would continue to buy as they need material. Dealers were hoping for some alleviation of the fairly tight vanilla bean situation by next fall. Cardamoms, Alleppey green, and bleached "A" and "B" grades eased back to previously held levels after the advances of two weeks ago. Pepper markets were easier by ½ cent to 1 cent.

A ban on exports of citronella oil from Formosa was reported by the Foreign Agriculture Service. The agency said that since exports of citronella oil had reached a predetermined level of 4 million pounds, further exports would be prohibited indefinitely. Exports will be resumed when domestic purchases have reached 1.5 million pounds, according to Formosa's Foreign Exchange and Trade Control Commission.

Price Trends

Advanced

Anise seed, Spanish, ¼c. per lb.
Ginger, Nigerian split, ½c. per lb.
Pimento, Mexican, 8½c. per lb.
Vanilla beans, Bourbon, whole, 20c. per lb.
Mexican, whole, 20c. per lb.
cuts, 10c. per lb.

Reduced

Cardamom, Alleppey green, 10c. per lb.
Bleached A, 5c. per lb.
Bleached B 5c. per lb.
Caraway seed, Dutch, ½c. per lb.
Cassia, Korintje, mixed, ½c. per lb.
Padang, mixed, ½c. per lb.
Cedarwood oil, 2c. per lb.
Cinnamon, Ceylon, "0000," 1c. per lb.
Cloves, Madagascar, 1c. per lb.
Patchouli oil, 25c. per lb.
Pepper, black, Lampong, ½c. per lb.
Malabar, ½c. per lb.
Sarawak, ½c. per lb.
Pepper, red, Funtuas, 1c. per lb.
Japanese Hontaka, 1c. per lb.
Japanese Sant=ka, 1c. per lb.
Pepper, white, Muntok, 1c. per lb.
Poppy seed, Dutch, 1c. per lb.
Danish, 1c. per lb.
Rosemary oil, 5c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
147.85	148.33	148.17	145.92

For Current Prices see page 9

Essential Oils

Abies Siberica—The market held at the $3.25 per pound level established two weeks ago. Price trend has been downward since the beginning of the month.

Bois De Rose—Market remained weak. A continued soft tone has been reflected in aromatics such as linalool and linalyl esters. A similar situation has been noted in lemongrass oil and derivatives. Prices have held at levels previously reported. Peruvian was $1.85 to $2.30 per pound and Brazilian was in a range of $2 to $2.75 per pound.

Citronella—Undercutting of Formosan material by Chinese oil in world outlets has caused a surplus of stocks in this country and rock-bottom prices in the domestic market.

Java type was held in a range of 57c. to $1 per pound and Ceylon was 58c. to $1 per pound. The domestic market has been unable to absorb heavy Formosa production despite buying flurries experienced during the Middle East crisis. Political agitation has had little or no effect in this market from a price standpoint.

Geraniam—Sources reported unchanged price levels. Market has remained strong, despite the report that a second small cutting had caused a slight reduction in prices at origin. Bourbon geranium oil was in a range of $18 to $22.75 per pound and Algerian was $16.50 to $18.50.

Ginger—New crop Cochin prices were steady last week. Jamaica grades were said to be firmly held, and shippers appeared uninterested in making new crop commitments due to talk of a government marketing plan.

Ocotea Cymbarum—Price was held at 39c. per pound and ranged to about 65c., according to trade sources contacted last week. Prices had been declining as a result of oversupply and listless demand. However, listing appeared to have stabilized, as the current price has held during the current month.

Orange—The market was quiet and expected to remain so until after the first of the year. Price trend has been downward in recent weeks. Sources quoted $1.35 per pound on Florida orange oil in drum lots, but there was little interest. Listings were at a low level for the year and no precipitous price movement was expected for the weeks ahead.

Patchouli—Sources contacted last week quoted this oil in a range of $4 to $4.50 per pound. Quotations have been on the soft side in this market. Consuming interest was quiet, sources said.

Peppermint—Stocks were fully adequate as reports have indicated a crop about 10 percent in excess of last year. The market was quiet. Despite sluggish movement of late, price schedules have held unchanged, sources said. Range on natural oil was $4.25 to $6.25 per pound and redistilled, USP, was $4.60 to $5.95.

Rosemary — Oil was easier last week with market quotations ranging from $1 to $1.35 per pound on Spanish oil of NF quality. Withdrawals were routine. Consumer interest was listless. Price trend in this market, as with many oils, has been downward.

Spearmint—Price was well held at previously reported levels. Crop has been estimated 10 percent below last year and has shown a strong aspect all through the fall months. Current range was $6.60 to $7.60 per pound.

Aromatic Chemicals

Citral—Prices held unchanged at previously reported levels, according to trade reports of last week. Low price of lemongrass oil has had its effect in this market, but the downtrend appeared to have leveled off. Withdrawals were normal.

Citronellal—Prices of the material displayed a softer tone last month, sources noted. The declines were attributed to the depressed price pattern of citronella oil from which citronellal is derived. The price last week was steady at a range of $1.45 to $2.10 per pound.

Linalool—Market has remained soft as a reflection of the weak tone of bois de rose oil. Price continued in a range of $3.80 to $4.30 for linalool ex bois de rose, and $4.40 for synthetic material.

Hydroxycitronellal—Price remained in a range of $4 to $4.80 per pound. Price trend in this market has been downward, reflecting the soft tone of citronella oil. However, prices appeared to have reached a plateau which has been held over recent weeks.

Essential Oils

Vanillin — Market held at unchanged quotations. Volume has shown a steady growth and trade sources estimated consumption last year at about four million pounds. With Christmas buying out of the way, producers expected little more than routine withdrawals for the balance of the year.

Seeds and Spices

Anise Seed — Spanish grade was stronger, up ½c. to 20c. per pound. Turkish material held at 17c. per pound.

Cardamons — Alleppey green dropped back to a previously held level of $2.10 per pound. Bleached A was newly quoted at $2.95 per pound, a 5c. reduction, and bleached B was also dropped 5c. to $2.80 per pound.

Ginger—The overall market continued to firm. Nigerian split grade was higher at 13c. per pound, spot. Stocks of Jamaican material have been reported small and no further information was forthcoming on new crop. Cochin grade was very steady.

Pepper—The market was lower, all along the line. Japanese grades were down 1c. per pound as was the case with Muntok white. Black pepper prices were off ½c. from previous listings. Steady withdrawals were reported.

Pimento—Prices advanced sharply on Mexican material. Spot quotation was 50c. per pound as against 41½c. to 42c. per pound two weeks ago.

Poppy Seed—Both Danish and Dutch grades were easier at 19½c. and 21½c. per pound, down 1c. from previous listings. A price of 19¾c. was quoted on Turkish grade. No prices have been listed on material from the latter source for many months.

Turmeric—Carryover of old crop Alleppey was reportedly small. Indications were that some exporters abroad felt that low prices of the past two years had discouraged cultivation of this item. India has not forced the pace on new crop sales, it was said. Spot market for Madras was about 12c. per pound and Alleppey held a range of 16c. to 16½c. per pound.

Vanilla Beans—Market was strong and advancing. Whole Bourbon and Mexican grades were quoted in a range of $10.60 to $10.90, with the bulk of trading said to be taking place at about $10.75 per pound. Price on cuts was $10.50 to $10.90 per pound. A low price of $7.30 was quoted on Tahiti and the range was up to $8 per pound. In recent years, 70 percent of the Tahiti crop was said to have gone to European consumers. A faltering in European demand weakened prices, but the market was moving up again last week. Not much material has been received from Java over the past few years (10,000 pounds average), but volume of Java cuts last year was estimated to have reached about 30,000 pounds. Beans from this source are primarily of the cut variety, since export duty is much less for cut than for whole, sources said. Price on the latter was quoted at $10.25 per pound.

Sources were hoping for some alleviation of the fairly tight supply situation on vanilla beans by next fall. A succession of small crops and indications that the Madagascar crop would be small again this year has led to an advancing market likely to remain strong for some time.

Poly-Coated Board

—Continued from page 4

board—or over 200 billion square feet—were produced, Mr. McCarthy points out.

"If polyethylene can find application in even 1 percent of this total it would amount to 68,794 tons of polyethylene-coated corrugated board," he says. "This is almost twice as much as the combined tonnages of paper and paperboard which were extrusion coated with polyethylene in 1957."

In light of the fact that about 20,000,000 pounds of polyethylene were consumed in extrusion coating of these substrates last year, the significance of the corrugated board development becomes evident, Mr. McCarthy notes.

In discussing the properties of polyethylene which make it an effective coating for corrugated board, Mr. McCarthy names its moisture and grease resistance and its low abrasive characteristics as the most important.

"Polyethylene's moisture barrier properties and its impermeability to grease make it a natural for meat and numerous other food products, while its low-friction surface is well-suited for glass, painted items, and highly polished objects which are particularly subject to scratching," he says. He predicts that the bulk shipment of foodstuffs will constitute the area of widest consumption for poly-coated corrugated board.

Chemical Users

—Continued from page 4

fused on the grounds that the customers had committed themselves to pay United's "going rate" under their agreement with United.

When the case reached the Court of Appeals, FPC was reversed on the grounds that United had to get the approval of its customers to increase its rates in view of the Mobile decision.

The supreme court, however, held last week that there was a distinction between the two cases. It said that the important difference was that in the Mobile case one party to the contract was asserting that the natural gas act somehow gave it the right unilaterally to abrogate its contractual undertaking whereas in the Memphis case, United was seeking simply to assert rights expressly reserved to it by contract.

"Business reality demands that natural gas companies should not be precluded by law from increasing the prices of their products," Justice Harlan said for the majority, "whenever that is the economically necessary means of keeping intake and outgo of their revenues in proper balance."

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AGAR—62 bbls, Casablanca
ALOE—31 cs, H Weber & Co, Puerto Cabello
ALUM—400 bgs, C M C Chemicals Inc, Liverpool
ALUMINUM FLUORIDE—300 bgs, Atlantic Raw Materials, Genoa
ALUMINUM POWDER—40 dms, Heidis Inc, Hamburg
4 dms, Putnam Chemical Corp, Hamburg
ALUMINUM SULFATE—530 bgs, Bremen
AMMONIUM BICARBONATE—300 bgs, Chemical Manufacturing Co, Liverpool
AMMONIUM CHLORIDE—200 bgs, Chemical Manufacturing Co, Liverpool
AMYRIS OIL—2 dms, Polarome Manufacturing Co, Port Au Prince
ANILINE DYES—23 dms, Sandoz Inc, Bremerhaven
20 dms, Geigy Chemical Corp, Havre
11 dms, Hensel Bruckmann & Lorbacher, Rotterdam
7 dms, Heemsoth Kerner, Liverpool
9 dms, Hensel Bruckmann & Lorbacher, Hamburg
91 dms, Hensel Bruckmann & Lorbacher, Bremen
14 dms, Putnam Chemical Corp, Hamburg
20 dms, Carbic Color & Chemical Co, Rotterdam
21 dms, Rotterdam
80 dms, Bremerhaven
ANNATTO SEED—239 bgs, Chr Hansen Lab, Callao
200 bgs, M J Golombeck, Rio de Janeiro
130 bgs, Callao
ANTHRAQUINONE—8 dms, Francolor Inc, Havre
ANTIMONY OXIDE—324 bgs, C Gitlan, Antwerp
ANTIMONY REGULUS—140 cs, C Gitlan, Antwerp
500 cs, Antwerp
ANTIOXIDANT OIL—1 bbl, Magnus Mabee & Reynard, Rijeka
4 bbls, Farmers Chemical Co, Rijeka
ARABIC GUM—250 bgs, H Heide, Port Sudan
500 bgs, Meer Corp, Port Sudan
100 bgs, Jacques Wolf & Co, Port Sudan
ARSENIC—120 dms, American Firstoline Corp, Marseille
ASBESTOS FIBER—160 bgs, Asbestos Products Corp, Laurence Marques
1 000 bgs, National City Bank, Durban
330 bgs, Mombasa
BARBASCO ROOT—450 bls, National City Bank, Callao
79 bls, Astoria Panamericana, Callao
BAY OIL—1 dm, R D Webb & Co, Roseau
1 dm, Citrus & Allied Essential Oils Co, Roseau
BEESWAX—100 bgs, Balfour Guthrie, Rio de Janeiro
63 bgs, S Zeitlins Sons, Santos
30 bgs, Porcella Vicini & Co, Ciudad Trujillo
50 cs, Federal United Corp, Santos
81 bgs, Puerto Plata
146 bgs, Havana
BENZOCAINE—20 dms, Hamburg
BENZOSULFAMIDE—51 cks, Conray Products Co, Kobe
BERGAMOT OIL—2 cs, Messina
BOIS DE ROSE OIL—15 dms, Hollander Trading Corp, Callao
16 dms, Hollander Trading Corp, London
BRONZE POWDER—80 dms, Chase Manhattan Bank, Hamburg
12 dms, Bremen
BRUCINE SULFATE—5 cs, Prentiss Drug & Chemical Co, Southampton
50 dms, Wm Recht Co, Hamburg
CADMIUM—101 cs, Overseas Metal & Ore Corp, Yokohama
221 cs, Antwerp
CALCIUM CARBONATE—80 bgs, J C Maasenrt Vanderbilt Lab, Marseille
CALCIUM GLYCEROPHOSPHATE—20 dms, Rousselot Corp, Marseille
10 dms, American Moninger Corp, Marseille
CAMPHOR OIL—25 dms, Magnus, Mabee & Reynard, Hong Kong
CAMPHOR POWDER—150 cs, Magnus, Mabee & Reynard, Kobe
80 dms, Bremen
CAMPHORIC ACID—7 dms, Poly Chemicals International Corp, Middlesbrough
CANDELILLA WAX—313 bgs, Tampico
CARAWAY SEED—100 bgs, George Uhe Co, Copenhagen
100 bgs, H Petry, Copenhagen
300 bgs, Neiman Bros, Rotterdam
100 bgs, R J Spitz, Rotterdam
CARBON, DECOLORIZING—60 dms, American Cyanamid Co, Bremen
CARDAMOM SEED—20 cs, Calcutta
CARNAUBA WAX—200 bgs, N American Cocoa Trading Co, Salvador
112 bgs, M Hassel & Co, Fortaleza
33 bgs, M Argueso & Co, Fortaleza
1,130 bgs, Cayenne
1,264 bgs, Salvador
CASEIN—1,000 bgs, National City Bank, Buenos Aires
209 bgs, Chase Manhattan Bank, Buenos Aires
1,004 bgs, Rotterdam
CASSIA—500 bgs, Foreign & Domestic Sales Corp, Belawan Deli
1,538 bls, Rotterdam
CASTOR OIL—300 tons, Woodward & Dickerson, Salvador
600 tons, Salvador
450 tons, Recife
CELERY SEED—604 bgs, M J Golombeck, Bombay
88 bgs, Otto Gerdau, Bombay
174 bgs, C Czerinkow, Bombay
CETYL ALCOHOL—61 cs, Aceto Chemical Co, Liverpool
CHARCOAL, ACTIVATED—9 cs, L A Salomon & Bro, Rotterdam
CHLOROPHYLL—2 cs, Chas L Huisking & Co, Southampton
CINNAMON BARK OIL—1 cs, Volkart Bros, Colombo
CINNAMON QUILLS—35 bls, Curacao Trading Co, Colombo
100 bls, Delano Corp of America, Colombo
38 bls, Fritzsche Bros, Colombo
CITRONELLA OIL—50 dms, Van Ameringen Haebler, Hong Kong
23 dms, L A Champon & Co, Hong Kong
20 dms, Essential Oils Inc, Hong Kong
CLOVE—200 bgs, Delano Corp of America, Tamatave
100 bgs, Tamatave
CLOVE OIL—31 dms, Trubek Lab, Tamatave
9 dms, Fritzsche Bros, Tamatave
9 dms, A Verley & Co, Tamatave
14 dms, Tamatave
COBALT OXIDE—183 cks, Antwerp
COBALT POWDER—20 cks, C Hardy, Havre
COCONUT OIL—779 tons, E F Drew & Co, Cebu
400 tons, American Trust Co, Zamboanga
250 tons, Pacific Vegetable Oil Corp, Iloilo
744 tons, Manila
CODLIVER OIL—80 dms, Arista Oil Products Co, Reykjavik
40 dms, Dyson Shipping Co, Reykjavik
COPAL GUM—98 bgs, O G Innes Corp, Manila
118 bgs, Archer Daniels Midland Co, Manila
COPPER CYANIDE—200 dms, Chemical Manufacturing Co, Middlesbrough
CORIANDER SEED—331 bgs, Karl H Landes & E Balint, Casablanca
CORN OIL—166 tons, Rotterdam
CORNMINT OIL—25 dms, Lo Curto & Funk, Santos
CORN STARCH—400 bgs, Rotterdam
CREAM OF TARTAR—300 bgs, Royal Bank of Canada, Barcelona
CRESYLIC ACID—25 tons, Van Oppen & Co, Liverpool
400 dms, Van Oppen & Co, Liverpool
CUBE POWDER—64 bgs, Foreign Domestic Distributors, Callao
CUBEB BERRIES—19 bgs, Fritzsche Bros, Singapore
CUMIN SEED—273 bgs, Manufacturers Trust Co, Khorramshahr
573 bgs, Chase Manhattan Bank, Khorramshahr
CUTTLEFISH BONE—100 cs, D F Young, Kobe
65 cs, S B Penick & Co, Sfax
250 cs, Venice
CYCLOHEXYLAMINE—159 dms, US Rubber Co, Hamburg
DAMMAR GUM—128 bgs O G Innes Corp, Singapore
DEXTRIN—400 bgs, Bestick Adhesives, Rotterdam
1,000 bgs, Morningstar Paisley Inc, Rotterdam
DRY COLORS—3 dms, United Mineral & Chemical Corp, Liverpool
EARTH COLORS—680 bgs, Naftone Inc, Bremen
125 bgs, Chase Manhattan Bank, Bremen
ELEMI GUM—53 cs, O G Innes Corp, Manila
FENNEL SEED—85 bgs, Ideal Trading Co, Bombay
FISHMEAL—1,016 bgs, Albumina Supply Co, Cristobal
FUEL OIL—201,699 bbls, American Independent Oil Co, Mena Abdulla
311,869 bbls, Esso Standard Oil Co, Las Piedras
98,286 bbls, New England Petroleum Corp, San Lorenzo
109,431 bbls, Garden State Refining Co, Pointa Pierre
506,599 bbls, Esso Standard Oil Co, Aruba
107,635 bbls, American Oil Co, Curacao
114,697 bbls, Hess Inc, Curacao
211,179 bbls, Esso Export Corp, Las Piedras
49,667 bbls, Socony Mobil Oil Co, Puerto La Cruz
49,997 bbls, Metropolitan Petroleum Corp, Punta Cardon
FURFURAL—894 tons, E I Dupont De Nemours & Co, La Romana
GALL, OX—6 dms, Tupman Thurlow, Rio de Janeiro
GARLIC OIL—1 cs, Magnus Mabee & Reynard, Rotterdam
GELATIN—111 bgs, Transatlantic Animal By-products Corp, Rotterdam
100 bgs, Bremen
200 bgs, Antwerp
GERANIUM OIL—5 dms, J Manheimer, Tamatave
3 dms, Fritzsche Bros, Tamatave
GERMANIUM—6 cs, American Metal Climax, Antwerp
GLUE—40 bgs, Jung Forwarding Co, Liverpool
700 bgs, First National Bank, Hamburg
GLUE, BONE—451 bgs, Transatlantic Animal By-Products Corp, Rijeka
GLUE STOCK—69 bls, Atlantic Gelatine Co, Buenos Aires
GRAPHITE—250 bgs, Joseph Dixon Crucible Co, Colombo
250 bgs, Tamatave
GUAR GUM—523 bgs, Stein Hall & Co, Bombay
70 bgs, Tragacanth Importing Corp, Genoa
100 bgs, Meer Corp, Genoa
250 bgs, Wedeman & Godnekcht, Genoa
GYPSUM—500 bgs, Certified Industrial Products, London
GYPSUM, CRUDE—3,335 tons, Allied Chemical & Dye Corp, Halifax
20,100 tons, U S Gypsum Co, Little Narrows
HEXACHLOROETHANE—200 bgs, Henley & Co, Bremen
HOOFMEAL—298 bgs, International Packers Ltd, Buenos Aires
407 bgs, Tupman Thurlow, Rio de Janeiro
ICHTHAMOL—5 dms, Rohner Gehrig, Hamburg
IODINE, CRUDE—30 bbls, Bunge Canadian Trading Co, Yokohama
IPECAC ROOT—11 bgs, Banta Corp, Cristobal
2 bls, R S Arbib, Santos
JUNIPER BERRIES—120 bgs, Karl H Landes & E Balint, Leghorn
KARAYA GUM—429 bgs, Stein Hall & Co, Bombay
316 bgs, Morningstar Paisley Inc, Bombay
60 bgs, Nehls & O'Connell, Bombay
KOLA NUTS—100 bgs, D Steengrafe & Co, Kingston
LACTIC ACID—6 djms, E F Drew & Co, Hamburg
LACTOSE—240 dms, Chas L Huisking & Co, Liverpool
4 dms, R J Saunders & Co, Hamburg
LAUREL LEAVES—212 bls, Louis Furth, Izmir
LAUREL OIL—1 cs, Magnus Mabee & Reynard, Rijeka
LAVANDIN OIL—1 cs, Van Ameringen Haebler, Marseille
2 dms, Fritzsche Bros, Marseille
LAVENDER OIL—6 dms, Barcelona
LAVENDER OIL, SPIKE—11 dms, L A Champon & Co, Barcelona
LEMON OIL—1 dm, Florasynth Lab, Vera Cruz
1 dm, Lo Curto & Funk, Vera Cruz
LEMONGRASS OIL—57 dms, Norda Essential Oil & Chemical Co, Cochin
29 dms, Givaudan Corp, Cochin
11 dms, Verona Pharma Chemical Corp, Cochin
LIVERMEAL—1,062 bgs, Rotterdam
LIVER POWDER—30 dms, Van Gelder Fanto Corp, Buenos Aires
LOCUST BEAN GUM—575 bgs, Stein Hall & Co, Genoa
30 bbls, J Einstein, Genoa
20 bgs, Ufinindo International Corp, Genoa
65 dms, Bank of N Y, Rotterdam
100 bgs, P A Dunkel, Hamburg
LOCUST BEAN PODS—80 bgs, Duche Uni Gum Corp, Genoa
MAGNESIUM CARBONATE—200 bgs, Rehels Co, Liverpool
30 cs, Chas L Huisking & Co, Genoa
MAGNESIUM CITRATE—25 cs, Arlecchino Ltd, Genoa
MANDARIN OIL—13 cs, Messina
MANGANESE ORE—1,120 bgs, National Carbon Co, London
MANGROVE BARK—1,352 bgs, Barkey Importing Co, Beira
MARJORAM—473 bgs, V Cordoui, Tampico
MENTHOL—25 cs, Magnus Mabee & Reynard, Keelung
25 cs, Bemo Shipping Co, Rio de Janeiro
110 cs, Daiichi Bussan Kaisha, Santos
25 dms, Marseille
MERCURIC OXIDE, YELLOW—7 dms, Rijeka
MERCURY — 200 flks, Holland Whitehall Inc, Coquimbo
10,000 flks, Cadiz
MOLASSES—555 tons, W R Grace & Co, Salaverry
MONOCHLOROACETIC ACID—76 dms, Bremen
MONTAN WAX—20 bgs, Dura Commodities Corp, Hamburg
MYROBALANS—812 bgs, Hammond & Carpenter, Bombay
2,666 bgs, Olson Importing Co, Visakhapatnam
MYROBALANS EXTRACT — 220 bgs, Tanimex Corp, Hull
MYRRH GUM—14 bgs, S Hartman, Aden
NAPHTHA—11,107 tons, Esso Standard Oil Co, Aruba
NAPHTHALENE—3,113 bgs, Standard Naphthalene Products Co, Liverpool
1,250 bgs, Standard Naphthalene Products Co, London
2,138 bgs, Standard Naphthalene Products, Middlesbrough
NAPHTHOL—2 dms, Hensel Bruckmann & Lorbacher, Bremen
NICKEL SULFATE—30 bgs, Amplex Chemical Co, Hamburg
NUTMEG—72 bgs, Dodge & Olcott, Rotterdam
112 bgs, George Lueders & Co, Rotterdam
105 bgs, Karl H Landes & E Balint, Penang
OCOTEA CYMBARUM OIL—46 dms, Lo Curto & Funk, Itajai
OLEYL ALCOHOL—52 dms, Olympic Shipping Co, Liverpool
OLIVE OIL—50 dms, Oldmonk Olive Oil Co, Marseille
50 dms, Aroma Food Corp, Marseille
160 dms, G Scalfani, Marseille
25 dms, C Orlando, Palermo
10 dms, Commercial Credit Bank, Patras
263 dms, Uddo & Taormina Co, Algiers
96 dms, J H Schroeder, Marseille
264 dms, Schroder Bros, Genoa
265 dms, Leghorn Trading Co, Genoa
125 dms, Gem Packing Corp, Sfax
96 dms, Strohmeyer & Arpe, Sfax
60 dms, J L Scafani, Sfax
50 dms, J D Nicolaou, Sfax
500 dms, A N Cory, Sfax
25 dms, A Baldanza, Sfax
84 dms, Atlantic Bank of N Y, Marseille
196 dms, Sfax
ORANGE OIL—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
OURICURY WAX—56 bgs, Strahl & Pitsch, Salvador
56 bgs, Cornelius Wax Refining, Salvador
93 bgs, Salvador
PALMKERNEL OIL—139 dms, Rotterdam
PAPAIN—14 tins, Greene Trading Co, Mombasa
10 cs, Paul Lewis Lab, Mombasa
17 cs, Bemo Shipping Co, Mombasa
80 cs, Chas L Huisking & Co, Mombasa
24 cs, Dar es Salaam
PAPRIKA—200 bgs, Mutual Spice Co, Hamburg
425 bgs, J Raphael & Sons, Hamburg
300 bgs, Sokol & Co, Hamburg
100 bgs, Archibald & Kendall, Hamburg
200 bgs, Chase Manhattan Bank, Hamburg
100 bgs, Pepper Products Co, Hamburg
200 bgs, Meer Corp, Hamburg
200 bgs, Schoenfeld & Sons, Casablanca
525 bgs, Manufacturers Trust Co, Alicante
300 bgs, H Marmarek & Son, Alicante
530 bgs, J Weinstein, Alicante
150 bgs, Swift & Co, Alicante
200 bgs, Griffith Lab, Alicante
725 bgs, Alicante
300 bgs, Rijeka
PATCHOULI OIL—8 dms, J Berlage, Penang
PENICILLIN—2 cs, Pure Labs Inc, Hamburg
PEPPER, BLACK—160 bgs, Mutual Spice Co, Colombo
80 bgs, Delano Corp of America, Colombo
160 bgs, M J Golombeck, Colombo
PEPPER, RED—100 bgs, Louis Furth, Kobe
100 bgs, Louis Furth, Yokohama
120 bgs, Louis Furth, Kingston
400 bgs, Rijeka
PEPPER, WHITE—35 bgs, Mincing Trading Corp, Singapore
PEPPERMINT LEAVES—69 cs, Chase Manhattan Bank, Istanbul
PEPSIN—5 dms, Hamilton Blair Inc, Copenhagen
PETIT GRAIN OIL—11 dms, H Weber & Co, Buenos Aires
PETROLEUM, CRUDE—139,756 bbls, Socony Mobil Oil Co, Puerto La Cruz
106,543 bbls, Metropolitan Petroleum Corp, Bachaquero
826,061 bbls, Esso Standard Oil Co, Puerto La Cruz
119,106 bbls, Pure Oil Co, Maracaibo
191,546 bbls, Northwestern Refining Co, El Palito
a-PICOLINE—55 dms, Rotterdam
PIMENTO LEAF OIL—2 dms, Fritzsche Bros, Kingston
1 dm, R D Webb & Co, Kingston
POLYVINYL ACETATE—25 bbls, Lloyd Associates, Bremen
308 cs, Aitaka N Y Inc, Kobe
POLYVINYL ACETATE RESIN—250 bgs, G G Lippelgoes, Kobe
POLYVINYL ALCOHOL—3,496 bgs, Marubeni Iida Inc, Kobe
POLYVINYL CHLORIDE RESIN—3,000 bgs, Daiichi Bussan Kaishi, Yokohama
POPPY SEED—100 bgs, Levy & Levis Co, Rotterdam
200 bgs, M J Golombeck, Rotterdam
150 bgs, Rotterdam
POTASSIUM CHLORIDE—67 bgs, Lo Curto & Funk, Bremen
POTASSIUM CYANIDE—100 dms, Chemical Manufacturing Co, Middlesbrough
POTATO STARCH—50 bgs, Rotterdam
PSYLLIUM SEED HUSKS—245 bgs, Prentiss Drug & Chemical Co, Bombay
PYRETHRUM EXTRACT—150 dms, Mombasa
PYRIDINE—221 dms, Marine Midland Trust Co, Havre
QUEBRACHO EXTRACT—648 bgs, First National Chicago, Buenos Aires
519 bgs, Barkey Importing Co, Buenos Aires
QUINCE SEED—64 bgs, Khorramshahr
QUINIDINE SULFATE—5 dms, Burroughs Welcome & Co, London
QUININE HYDROCHLORIDE—4 dms, Frank Samuel & Co, Southampton
RADIUM ELEMENT—1 cs, Radium Chemical Co, Antwerp
RICE STARCH—640 bgs, Stein, Hall & Co, Bremen
100 bgs, Stein, Hall & Co, Trieste
ROSE HIPS—40 bgs, Barth Nutritional Supplements, Rijeka
RYANIA—128 tons, Natioal City Bank, Port of Spain
SACCHARIN—35 dms, Foster T Smith, Yokohama
SAGE LEAVES—200 bls, Louis Furth, Dubrounik
100 bls, Agricultural Commodities Corp, Rijeka
500 bls, Louis Furth, Rijeka
1,000 bls, Dubrounik
200 bls, Trieste
SAGO FLOUR—277 bgs, Morningstar Paisley Inc, Singapore
SANDALWOOD OIL—13 cs, Agriscent Corp, Cochin
4 cs, Brown Bros, Cochin
5 cs, Chase Manhattan Bank, Cochin
7 cs, National City Bank, Cochin
26 cs, Cochin
8 cs, Calcutta
SANTAL OIL—2 cs, A Verley & Co, Havre
SEBACIC ACID—230 bgs, Wallace & Tiernan, Liverpool
SEEDLAC—400 bgs, Bunge Corp, Calcutta
2,000 bgs, Calcutta
SENNA LEAVES—100 bls, Prentiss Drug & Chemical Co, Tuticorin
SESAME SEED—225 bgs, Ideal Trading Co, Cutuco
250 bgs, Archibald & Kendall, Corinto
117 bgs, Levy & Levis Co, Corinto
SESAME SEED, HULLED—1,000 bgs, Archibald & Kendall, Corinto
200 bgs, Hismoco American Co, Corinto
500 bgs, Louis Furth, Corinto
300 bgs, Levy & Levis Co, Corinto
200 bgs, Archibald & Kendall, San Juan del Sur
430 bgs, Louis Furth, San Juan del Sur
125 bgs, R J Spitz, San Juan del Sur
600 bgs, Levy & Levis Co, San Juan del Sur
200 bgs, M J Golombeck, San Juan del Sur
SHELLAC—400 bgs, Mantrose Corp, Bremen
27 bgs, F H Paul & Stein Bros, Hamburg
100 bgs, Calcutta
SODIUM ALGINATE—50 dms, Stein, Hall & Co, Glasgow
SODIUM p-AMINOSALICYLATE—20 dms, Progressive Color & Chemical Co, Hamburg
SODIUM CARBONATE—20 bbls, Chemical Bank, Rotterdam
SODIUM CHLORIDE—100 dms, Hensel Bruckmann & Lorbacher, Bremen
SODIUM CHLORITE—150 dms, Hamburg
SODIUM CYANIDE—1,220 dms, Chemical Manufacturing Co, Liverpool
530 dms, American Cyanamid Co, Liverpool
1,250 dms, Philipp Bros, Chemicals, Rotterdam
SODIUM PERBORATE—100 bgs, Conray Products Co, Rijeka
200 bgs, Hamburg
SODIUM SULFATE, ANHYDROUS—600 bgs, Antwerp
STRONTIUM CHLORIDE—25 bbls, Hummel Chemical Co, Hamburg
SULFAGUANIDINE—12 kgs, Copenhagen
SULFANILAMIDE—168 kgs, Copenhagen
TALC—240 bgs, L A Salomon & Bro, Bordeaux
801 bgs, C B Chrystal Co, Bordeaux
2,700 bgs, Charles Mathieu, Genoa
TAMARINDS—6 cs, A M Gurjar & Co, Bombay
TAPIOCA FLOUR—2,205 bgs, Guaranty Trust Co, Itajai
2,000 bgs, Stein Hall & Co, Itajai
800 bgs, Poons Co, Itajai
600 bgs, Harry F R Dolan Jr, Bangkok
1,245 bgs, Morningstar Paisley Inc, Bangkok
TARA PODS—17 bgs, Callao
TARTARIC ACID—100 dms, Byron Chemical Co, Palermo
140 dms, Frank Samuel & Co, Marseille
100 bgs, Barcelona
TEA OF MATTE—80 cs, Meer Corp, Paranagua
TERPIN HYDRATE—10 kgs, Copenhagen
THEOPHYLLINE, ANHYDROUS—40 cs, Hamburg
THYME LEAVES—109 bgs, Alicante
TITANIUM DIOXIDE, ANATASE—800 bgs, Nylos Trading Co, Genoa
TONKA BEANS—10 bbls, Machado & Co, Ciudad Bolivar
TRAGACANTH GUM—32 cs, Unico Trading Co, Khorramshahr
68 cs, Khorramshahr
320 bgs, Khorramshahr
TRICHLOROETHYLENE—46 dms, Bedford Chemical Corp, Genoa
TURMERIC—58 bgs, Kellys America Ltd, London
ULTRAMARINE BLUE—14 bgs, Whittaker Clark & Daniels, Hull
UREA, SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—63 cs, Gillespie & Co, Tamatave
210 cs, J Manheimer, Tamatave
45 cs, Morningstar Paisley Inc, Tamatave
22 cs, George Uhe Co, Tamatave
160 cs, Tamatave
71 cs, Madagascar Agencies, Tamatave
2 cs, L A Champon & Co, Tamatave
114 cs, Lo Curto & Funk, Tamatave
9 cs, L A Champon & Co, Tandjong Priok
VANILLA POWDER—20 cks, Zink & Trieste, Marseille
VETIVER OIL—2 dms, Ufinindo International Corp, Tamatave
VITAMIN B,—4 cs, Hamburg
WATTLE BARK—1,656 bls, Hammond & Carpenter, Durban

—Continued on page 75

Coatings Materials

A harbinger of steadiness in dry colors was dispatched to trade sources last week. This was the price list of a major manufacturer in which could be discerned among the numerous pigments quoted by OPD only one decine and no advances. Benzidine yellow goes down 10 cents to $2.20 per pound, effective, of course, immediately. Said one observer, "This is the first time in my four years of close market scrutinizing that that batch of colors has rounded the bend without a price hike. Could be competition's tough. After all, costs are up." Given tough competition, it's more than likely that other makers will follow this lead by standing pat.

Production economy rather than competition is believed to lie behind the recent reduction of 1½ cent per pound in a leading firm's line of general-purpose polyvinyl chloride resins used in callendering and extrusion operations. Effective December 1, truckload quantities, prevoiusly priced at 25 cents per pound, became 23½ cents on spot and contract.

Many resins, this department noted a week ago, turned in the opposite direction on December 1. Higher at that time by ¼ cent to ¾ cent per pound went modified phenolics and maleics, alkyds, alkyl solutions and chemically modified linseed oil. Two alkyds were given a fractional trimming, while the cut in chemically modified soybean oil could be described as quite substantial.

Last week's casein market was steady and unchanged. Offerings from Argentina, because of the recent drought, were less than ample, while demand, because of available substitutes, was short of brisk.

Prime Pigments

Lead Pigments—The automobile industry, which earlier in the year found itself asea as the black sheep in the industrial lineup, is now setting its sights on the new horizons which loom over near fourth-quarter peaks. Records won't be smashed this year, it is feared, due to the late start, but all hands are geared to scale economic peaks in 1959, an observer said.

Even those who are bearish about the car trade's future have conceded that its ambitious plans and raw materials purchases were instrumental in stemming the downturn of the economy. As one observer put it, many hands have helped to set the economic picture on an even keel, and not the least of those hands is connected to the automotive arm of industry.

Pigment business is booming this quarter. The pigments that give the sparkle to today's automobile felt immediate benefit from Detroit's reawakening, while others have shared in the chain-reaction feature of economic revival.

Indicative of the latter is the most recent report on spending for new plant and equipment, tabbing it at $29.9 billion as against the previous quarter's $29.6. The brighter picture in Detroit, a trade source said, has certainly supplied the fuel that lies behind this giant's steam, and the giant is, of course, a consumer of formidable paint gallonage.

As to lead pigments specifically, that group has been in the vanguard of industry sales and bids fair to maintain a smart gait through normally lean December. Very unusual, a trade source noted, to see the market showing undiminished vigor in this twilight of the year. Almost unprecedented, he added, to see sales holding at peak levels right down to the week for inventory and holiday observances.

Prices are steady and unchanged. The advances that were posted earlier in the quarter, bringing quotations 2c. per pound higher, have been firmly maintained. Supply is ample to meet all trade needs, immediate and forward.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
103.09	103.09	103.09	101.29

For Current Prices see page 9

Synthetic Resins

A price reduction of 1½c. per pound has been posted by a major firm for its line of general-purpose polyvinyl chloride resins used in callendering and extrusion operations. Effective December 1, truckload quantities, previously priced at 25c. per pound, became to 23½c. on spot and contract.

The following figures show production in pounds for September and list August's figures for comparison, as reported by the Tariff Commission:

Production

	August*	September*
Phenolic and other tar acid resins:		
Molding resins	11,129,134	15,341,168
Laminating resins	10,961,998	11,656,761
Protective coating resins, modified, unmodified, except by rosin	2,867,762	2,557,256
Urea and melamine resins:		
Protective coating resins, straight, modified	2,420,264	3,196,907
Styrene resins:		
Protective coating resins, straight, modified	7,241,998	8,289,579
Vinyl resins:		
Total all types	69,671,931	82,133,434
Alkyd resins for protective coatings:		
Phthalic anhydride types, unmodified	19,549,131	20,734,162
Modified with tar acids, rosin and/or other material except styrene	5,524,962	6,341,917
Polybasis acid types except phthalic:		
Unmodified	490,251	513,185
Modified with tar acids, rosin and/or other materials except styrene	971,235	1,145,457
Rosin modifications for protective coatings:		
Rosin, rosin esters, unmodified (ester gum, esterified with glycerol)	889,765	877,290
Esterified with other alcohols, pentaerythritol, glycols, etc.	910,037	808,484
Rosin, roins seters, modified:		
Modifications with phenolic and other tar acid resins	1,982,981	2,309,177
Modifications with maleic and fumaric acids	2,786,389	2,901,012
All other modifications	4,507,037	3,769,427
Coumarone—indene and petroleum polymer resins	22,545,472	20,492,188
Miscellaneous synthetic plastics and resins materials:		
Protective coating resins (including epichlorohydrin, acrylic polyesters, silicone and other resins)	1,844,953	2,117,111

*Partly estimated.

Copal Gum—Fully adequate supply encountered fairly active interest. Considering how far the year has plunged into December, a dealer said, demand has shown surprising resilience. The lion's share of credit for the favorable demand picture, he noted, belongs to the interior coatings industry.

Dammar Gum—Price of Singapore No. 1 was steady and unchanged at the lower level posted two weeks ago. Sales level was said to be satisfactory for this time

Coatings Shipments, Output: September

	Factory shipments Dollars		Reported productions Gallons	
	August	September	August	September
Trade sales	$97,100,000	$96,600,000	32,700,000	30,600,000
Industrial sales, total	51,200,000	48,800,000	21,600,000	22,000,000
Paint and Varnish	37,200,000	34,300,000	15,300,000	15,300,000
Lacquer	14,000,000	14,500,000	6,300,000	6,700,000
Overall totals	$148,300,000	$145,400,000	*54,300,000	*52,600,000

Total sales, Jan.-Sept.: $1,189,625,000.

*Detail does not add to total because some respondents reported only total production without indicating allocation as to trade or industrial outlets.

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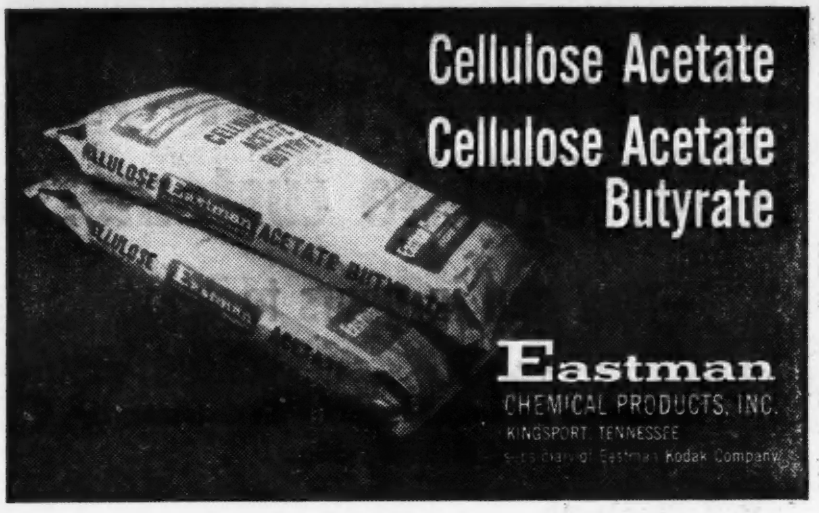

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Coatings Materials

of the year, with consumers still stressing actual needs rather than contract commitments.

Miscellaneous

Casein — Market was steady and unchanged against seasonably moderate sales. Because of the recent drought, only light offerings were available from Argentina. Domestic and New Zealand materials were stable at price levels of long-standing.

Glue—The following figures compiled by the Bureau of Census indicate production, shipments and stocks of bone and hide glue in thousands of pounds during October with September's figures shown for comparison:

Production

	Oct.	Sept.
Hide, glue, total	4.793	3.934
Low grade	2.096	1.842
Medium grade	1.368	1.140
High grade	954	723
Extra high grade	375	229
Bone glue, total	5.585	4.158
Green	4.165	3.159
Extracted	1.420	999
Glue, total	10.378	8.092

Shipments

Hide, glue, total	5.001	4.580
Low grade	2.025	1.870
Medium grade	1.587	1.433
High grade	1.115	1.044
Extra high grade	274	233
Bone glue, total	5.779	4.568
Green	4.110	3.574
Extracted	1.669	1.094
Glue, total	10.780	9.248

Stocks

Hide glue, total	23.389	24.097
Low grade	7.907	7.836
Medium grade	8.556	8.775
High grade	5.731	5.392
Extra high grade	1.695	1.594
Bone glue, total	10.849	11.034
Green	7.752	7.697
Extracted	3.088	3.337
Glue, total	34.729	35.131

Naval Stores

Pine Gum—For the week ended November 29, the average price per standard barrel of commercial crude pine gum was reported at $23.14 as compared with $23.30 the previous week and $22.01 a year ago. The volume of gum deliveries to plants amounted to 16,400 barrels as against the prior week's 18,200 and 15,299 a year ago. Content per barrel averaged out to 7.98 gallons of turpentine and 297.6 pounds of rosin. Gum grading percentages ranged as follows: WW, 0; WG, 2; N, 30; M, 40 and K and below, 19.

Rosin — Domestic demand, stressing medium grades M and K, quickened during the week ending December 5, according to Agricultural Marketing Service. Large amounts in molten form and smaller amounts in drums were sold for delivery during later winter months. Scrape receipts, the Service said, turned downward. Overall sales, at 2,558 drum equivalents, contrasted favorably with the prior week's 1,988.

Turpentine—Tankcar trading was less active and average price fractionally higher during the week ended December 5. Sales amounted to 29,075 gallons, in-

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DALLAS, TEX. — Thompson-Hayward Chemical Co., P. O. Box 6226
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GREENVILLE, S. C. — Harwick Standard Chemical Co., 120 N. Markley St.
HOUSTON, TEX.—Thompson-Hayward Chemical Co., P. O. Box 4557
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LONG ISLAND CITY, N.Y. — C. Withington Co., Inc., 47-40 Fifth Street (paint industry only)
LOS ANGELES, CAL. — Harwick Standard Chemical Co., of Cal., 1248 Wholesale St.
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OMAHA, NEB. — Thompson-Hayward Chemical Co., 1110 S. Fourth St.
PHILADELPHIA AREA, PA. — Van Horn, Metz & Co., Inc., 241 E. Elm Street, Conshohocken, Pa.
PITTSBURGH AREA, PA. — St. Joseph Lead Co., Monaca, Pa.
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ST. LOUIS, MO.—J. E. Nichaus & Co., Inc., 2419-21 Gratiot St.
ST. PAUL, MINN.—George C. Brandt, Inc., 739 Pillsbury Ave.
SAN ANTONIO, TEX. — Thompson-Hayward Chemical Co., 222 Soguin St.
SAN FRANCISCO, CAL. — L. H. Butcher Co., 15th & Vermont St.
SEATTLE, WASH. — Great Western Chemical Co., 1242 Sixth Ave., So.
TRENTON, N.J.—R. E. Carroll, Inc., P. O. Box 459
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Coatings Materials

cluding 31.2 percent exports, as against the prior week's 58,750 gallons, including only 4.7 percent exports.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Dec. 5	Mon. Dec. 8	Tues. Dec. 9	Wed. Dec. 10	Thurs. Dec. 11
Drums—					
K	$8.05	...	$8.05	...	$8.25
M	8.05	...	8.12½	$8.10	8.10½
N	...	$8.10	...	8.10	8.11½
WG	...	8.31½	8.42	8.36	...
WW	...	9.08	...	...	9.10
Bags—					
K	...	...	8.00[1]	...	...
M	...	...	8.00	...	...
N	...	8.00	...	...	...
WW	8.90	...	9.00	9.00	9.05

Tankcars (for week ended December 11). M, $7.65; M or better, $7.57½, $7.63½, $7.60.

Sales, USDA
781* 1,240* 1,497* 3,876* [2]

New York
(Per 100 lbs., c.l., Friday)
WW, $10.00; WG, $9.60; N, $9.30; K-M, $9.10.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.525	.524	...	...	...
Sales	8.000¶	8.000¶	...	...	...

New York, Friday, per gal. 7 lbs., tankcars, 63c., l.c.l. 82c.

* Drums equivalent. ¶ Gallons. ‡ Average price.
[1] K or better.
[2] Total not reported.

Borden Is Making Four New Cold-Water Caseins

Manufacture of four new "Protovac" cold-water soluble caseins, PV-424, PV-428, PV-430, and PV-800, has been announced by Borden Chemical Company, New York, a division of Borden Company.

Unlike most conventional caseins, which, after soaking and the addition of alkali, require up to sixty minutes of heating at from 130 to 180 degrees Fahrenheit, the new Borden products are said to require only ten minutes of alkali soaking and about thirty minutes of mixing at only 60 to 80 degrees. The rate of solution can be increased by use of a high-speed mixer, such as the Cowles Dissolver. High-speed mixing presents no foaming problems, Borden reports. Use of the products is said to eliminate the need for cooking equipment.

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PROBLEM: *Stability?*

SOLUTION: SOVASOL 35

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PROBLEM: *Uniformity?*

SOLUTION: SOVASOL 35

Controlled raw material sources, rigid manufacturing standards, exacting finished-product tests, spotless-clean tank car deliveries . . . all add up to uniform, consistent quality performance.

TYPICAL PROPERTIES

Volatility -	Distillation Range, °F ... IBP	340
	10%	352
	50%	360
	90%	371
	ASTM End Pt.	405
	Drying Time	200 minutes (Toluol, 20 minutes, under same test conditions).
	Flash Point, TCC °F	120
Solvent Power -	Aniline Point, °F	184
	Kauri Butanol No.	26
Weight -	Gravity, °API	55.5
	Gravity, Specific 60/60°F	.7567
	Gravity, lbs/gal 60°F	6.30
Purity -	Sovasol 35 is water white in color and passes all pertinent stability and copper corrosion tests. It is practically odorless, is doctor sweet and is relatively color stable.	
Handling Precautions -	Safety - Combustible liquid. Avoid heat or open flame.	
	Toxicity - Relatively low order of toxicity but avoid prolonged contact with skin or excessive inhalation of vapors. (Further details upon request.)	
	Shipping Regulations—No ICC Red Label required.	

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Titre	131°F. min.
Color 1" Lovibond Red	8 max.
Color 1" Lovibond Yellow	50 max.
Color FAC	15 max.
Color Gardner	12 max.
Saponification Value	198 min.
Acid Value	190 min.
Iodine Value	7-12

COMPOSITION

Myristic	3%
Palmitic	30%
Stearic	58%
Oleic	9%

a. gross

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Oils, Fats and Waxes

Feature of the oils and fats market last week was the further weakness in crude cocount oil on the Pacific coast, which caused the market to break sharply —more than 1 cent per pound for shipment, while light stocks at New York were held at unchanged levels and only slightly shadable for quick delivery. Buying interest, however, lagged here and on the Coast. Copra also was easier and declined $12.50 per ton.

Buying interest in edible oils was limited and light trading took place at lower levels. Corn and cottonseed oils dropped fractionally. Soybean oil was also sold lower, reaching the lowest level since late 1949. Peanut oil was steady, with light trading at a fractional advance. Lard was weaker and cash lard dropped 1 cent per pound, to new season lows.

Tallow and greases continued to move downward due to light interest and increased offerings. Soapers were buyers at slightly lower levels. Edible tallow was inactive and lower.

Quiet demand for linseed oil finally weakened this market and producers lowered the price schedule fractionally. Linseed meal, however, was stronger and light stocks for prompt delivery were boosted sharply. Nominal quotations for nearby were up $5.50 per ton. Crushers were not offering meal with resellers holding limited supplies. Consuming demand for castor oil was spotty. No. 1 Brazilian was slightly lower, but reduced offers for shipment was expected to improve this market. Domestic castor oil grades moved in fair volume against contracts.

Soybean meal continued in tight supply and was advanced $1 per ton for prompt delivery. Cottonseed meal also was firm. Offers were light and boosted $3 per ton.

Price Trends

Advanced

Carnauba wax, chalky, 1c. per lb.
Carnauba wax, No. 2 crude, 2c. per lb.
Refd., 3c. per lb.
No. 3, crude, 3c. per lb.
Refd., 5c. per lb.
No. 1 yellow, 3c. per lb.
Cottonseed meal, $3 per ton.
Linseed meal, $5.50 per ton.
Oleic acid, ¼c. per lb.
Peanut oil, crude ¾c. per lb.
Refd., ¾c. per lb.
Soybean meal, $1 per ton.
Stearic acid, ¼c. per lb.
Tallow fatty acid, ¼c. per lb.

Reduced

Cocoa butter, 5c. per lb.
Coconut oil, crude, Pac. coast, 1¼c. per lb.
Copra, $12.50 per ton.
Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Cottonseed oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Greases, ½c. per lb.
Lard, cash, 1c. per lb.
Linseed acid, 2/10c. per lb.
Linseed oil, 2/10c. per lb.
Oleo stearine, ¼c. per lb.
Soybean oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Tallow, edible, ½c. per lb.
inedible, ¼c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Dec. 13, 1957
116.86	115.00	111.85	101.38

For Current Prices see page 9

Vegetable Oils

Castor—Domestic grades were unchanged and held at former levels. Consumer interest for imported oil was spotty. No. 1 Brazilian was more or less nominal at 14⅞c. to 15c. per pound, tankcars, New York, prompt delivery. Reduced offers for shipment from Brazil was expected to improve the tone of this market.

Import of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week		2,700,000
Previous week	1,889,400	1,100,000
Corresponding week, 1957	762,300	2,938,000
Total this year	18,136,500	63,935,000
Corresponding period, 1957	28,456,000	104,293,000

Coconut—Further weakness developed in crude on the Coast. Market declined to 17¼c. per pound, tankcars, f.o.b. Pacific coast, December-January shipment. Stocks at New York were limited and quoted nominally at 20½c., tankcars for immediate delivery.

Corn—Light trading in crude was noted at 12c. per pound, tankcars, f.o.b. mills, prompt shipment, off ¼c. Refined also was lower at 15.73c. per pound, tankcars, New York basis.

Cottonseed—Futures market continued unsettled last week, reflecting the weakness of soybean oil and lard, both establishing new lows this season. Liquidation in futures was liberal and reach stop loss orders. Prices declined fractionally, also registered new seasonal lows for prompt and deferred deliveries. December tenders were increased 16 contracts bringing the total to 45 contracts to date.

Cash oils also were easier. Refined salad declined to 14¾c. per pound, tankcars, New York, prompt delivery. Crude cottonseed oil also was weak. Sales were reported at 6⅞c. per pound, tankcars, f.o.b. mills, Valley and 10⅝c., Waco and 10½c. Lubbock. The southeast was nominal at 11⅛c. to 11¼c., tankcars.

CCC receipts of cottonseed were reported at 104,560 tons during the week of December 8, increasing the total to 539,610 tons to date which is equivalent to about 3,000 tankcars of oil.

Cottonseed production was indicated at 4,788,000 tons compared with 4,609,000 tons last year and 10 year average at 5,767,000 tons.

The Department of Agriculture in its final estimate of the 1958 cotton crop placed production at 11,581,000 bales against 11,764,000 bales in November and 1957 production of 10,964,000 bales. The 10 year 1947-56 average was 14,136,000 bales.

Margarine production in October was indicated at 143,623,000 pounds compared with 136,552,000 pounds in September and 137,803,000 pounds, October last year, it was reported by the National Association of Margarine Manufacturers. Output during January-October inclusive amounted to 1,295,306,000 pounds against 1,197,439,000 pounds for the same period last year.

Linseed—Raw oil was easier and reduced 2/10c. per pound. Business was slow. Raw oil was quoted at 12.8c. per pound, tankcars, Minneapolis, December-January delivery; 13c., February-April and 13.2c., February-April. Withdrawals of oil against contracts were less active than a week ago.

Flaxseed—Crushings totaled 2,117,215 bushels in November against 2,571,000 in the previous month. The total for August-November inclusive amounted to 8,296,590 bushels.

Minneapolis.—Trading in cash flaxseed was near a standstill, offerings negligible and demand extremely quiet. With current prices 13c. under loan level there was little incentive to offer. Limited demand for linseed oil and curtailed crusher activities made for dearth of demand. Consensus of trade opinion was that it would take substantially higher prices to generate any producer selling. Bids remained at $3 a bushel, spot and to-arrive, basis Minneapolis. Arrivals for all accounts amounted to 64 cars, compared with 147 a year ago. Shipped were 30 cars, against 21 last year.

Receipts and shipments of flaxseed, in bushels, were as follows:

	Receipts		Shipments
	1958-59	1957-58	1958-59
Past week	115,500	257,250	52,500
Since Sept. 1	8,534,350	9,506,750	1,123,500

Oiticica—Stocks were closely held with trading reported at 17½c. per pound, tankcars, New York, prompt delivery. Drums were unchanged from 19c. to 19½c., spot, depending upon quantity.

Olive—Spanish oil was lower for shipment, and quoted at $55 per 100 kilos, drums, f.o.b. shipping point. Tunisian ranged from $54 to $54.50 per 100 kilos, drums, c. and f. New York, according to quantity. Trading was moderate on spot, and for shipment. Oil on spot, ranged from $2.40 to $2.50 per gallon, drums, duty paid, as to quantity.

Tunisia expects its olive oil yield for the 1958-59 season, which began No-

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, December 12, follow:

	Sales	High	Low	Close
		Cents per pound		
Dec.	217	13.16	12.97	13.15@13.24
March	646	12.10	12.77	13.05S
May	577	13.11	12.81	13.07S
July	71	12.99	12.69	12.92@12.95
Sept.	36	12.63	12.35	12.53@12.57
Oct.	2	12.55	12.45	12.45@12.50
Dec. (1959)	4	12.50	12.50	12.40@12.50

Total sales and switches 1,596 contracts.

Oils, Fats and Waxes

vember 1, to reach a new alltime high of 120,000 metric tons, compared with 45,000 tons in 1957-58 and 90,000 in 1956-57.

Palm—Trading was slow. Drums ranged from 14c. to 15c. per pound, spot, according to quantity. Tankcars were quoted at 11½c., prompt.

Peanut—Crude was sold at 14c. per pound, tankcars, f.o.b. mills, southeast, prompt shipment. Refined was available at 17½c., tankcars, New York basis. Business was slow.

Rapeseed—Trading was confined to actual needs. Tankcars were offered at 14½c. per pound, New York, prompt delivery and drums from 16c. to 16½c., spot, depending upon quantity.

Soybean—Crude was unsettled and was sold at the lowest level since November, 1949. Light trading was reported at 9½c. per pound, tankcars, Decatur, unrestricted December delivery; at 9⅜c., January and 9¼c., February, same basis. At the close ⅛c. more was asked. Refined salad was lower at 11.93c. per pound, tankcars, New York, prompt delivery.

Tung—Consumer interest lagged. Tankcars were well held at 21½c. per pound, New York, for nearby delivery and ¼c. less for January. Drums were unchanged at 23c. to 23½c. per pound, spot as to quantity.

Miscellaneous

Cocoa Butter—Business was slow. Market was easier with lower beans. Prices declined to 89c. to 94c. per pound, according to quantity.

Copra—Buying interest slackened and market was easier. Prompt shipment declined to $2.35 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases — Slow demand resulted in freer offerings and quotations continued soft and slightly lower. Yellow grease ranged from 7⅛c. to 7¼c. per pound, tankcars delivered with sales for low acid at the higher price. Choice white was lower at 8⅛c. to 8¼c., same basis.

Lard—Quiet demand further weakened this market. Quotations declined sharply. Cash lard dropped to 10c. per pound, drums, Chicago, a new seasonal low.

Tallow — This market continued unsettled and light trading took place at slightly lower levels. Soapers purchased moderate quantities of bleachable fancy at 7⅞c. per pound, tankcars, delivered. Offerings were more liberal. Prime was named at 7⅝c.; special, 7⅜c.; No. 1, 7⅛c., same basis. Edible tallow was lower at 10c., same basis. Export business continued to lag. Guaranteed fancy was offered at 9¼c. per pound, drums, f.a.s. and at 8¾c., bulk.

Consumption of inedible fats used in feeds in September totaled 33,306,000 pounds according to the Department of Commerce. Totals used were reported as follows: Inedible tallow and grease, 27,876,000 pounds; grease, inedible, refined, 1,643,000 pounds; fish oil, 1,887,000 pounds and vegetable foots, 1,616,000 pounds.

Fish Oils

Cod—Replacements were firm as a result of good volume of business booked for prompt shipment around 8¼c. per pound, drums, exdock, New York. Offerings for shipment were reported light. Oil on spot was maintained at 9⅜c. to 9½c. per pound, drums, as to quantity.

Menhaden—Crude was quiet, but firmly held. Tankcars were nominal at 7⅞c. to 8c. per pound f.o.b. works. Refined grades were steady with the firmness of crude. Light pressed was well held at 10½c. per pound, tankcars, New York basis.

Fatty Acids

An advance of ¼c. per pound became general last week for oleic, stearic and tallow fatty acids. Producers announced that this action was caused by the recent increases in the cost of production. Vegetable fatty acids remained steady at unchanged quotations. Consuming demand for most grades was reported fairly active for prompt delivery.

Cake and Meal

Cottonseed Meal—Market was strong and higher. Supplies were tight, with sellers not pressing for business. Buying interest also was light. Meal, 41 percent was held at $66 per ton, sacked, Memphis, Alabama and Georgia for December shipment.

Linseed Meal—Drastic price advance for nearby continued to feature market.

Minneapolis.—Spectacular gains were scored in this market, sparked by scarcity of supplies and continued excellent demand. Most crushers were out of the market for all of December while re-sale asking prices advanced $5.50 to $6 a ton for nearby, little available. Withdrawals against old contracts were at rapid pace, many users requesting early shipment. Extracted meal, 34 percent, was nominal at $68 to $70 a ton, carlots, f.o.b., Minneapolis, for December delivery. January-February meal was held to $66. Old process meal, 32 percent, was not quoted for December-January; up $1 for February-March at $66. Scattered trucklot business for December was as high as $73.50.

Shipments of linseed meal, in pounds, were as follows:

	1958-59	1957-58
Past week	12,600,000	16,500,000
Since Sept. 1	197,900,000	203,040,000

Peanut Meal — Trading was reported light. Stocks were not heavy, but adequate to meet demand. Meal was unchanged at $60 per ton, sacked, f.o.b. mills Georgia and Alabama.

Soybean Meal—Feature of this market was continued extraordinary strength in western markets. Differential between Minnesota meal and unrestricted narrowed to as little as $1 a ton. Eastern market was comparatively quiet, most users well booked. There were occasional instances of re-selling by mixers, profit-taking on the heels of sharp climb. Tight situation is expected to persist through January. Soybean meal, 44 percent, was quoted at $60 to $61 a ton, unrestricted, bulk, Decatur for December and $57.50 to $59 for January.

Waxes, Vegetable

Price of carnauba grades leveled off last week after registering advances from 3c. to 5c. per pound, under active consuming demand which drastically reduced supplies on spot. An excellent volume of business was booked for immediate and later delivery at the higher levels. The spurt in business was caused by the increase of 5c. per pound in the floor price of fatty combined with rumors that the Brazilian government would purchase stocks of new crop at the higher levels. No. 3, Ceara crude advanced to 71c. to 73c. per pound, spot, as to quantity and Parnahyba crude at 2c. more. Refined Ceara and Parnahyba grades also were boosted 3c. per pound. No. 1, yellow Ceara was boosted to $1.13 to $1.15 per pound, spot, with Parnahyba, 2c. to 3c. higher. Consuming interest in beeswax and other grades was light, as the fireworks were restricted to carnauba.

FDA Grants Chipman Petition Withdrawal Right

Food and Drug Administration has permitted a withdrawal by Chipman Chemical Company, Bound Brook, N. J., of its petition for a tolerance of 0.1 part per million for residues of O, O-diethyl S-2-diethylaminoethyl phosphorothioate hydrogen oxalate in or on undelinted cottonseed.

The company informed FDA that it has decided to withdraw the pesticide chemical from further market development because experience shows that too much supervision and exacting attention to the wearing of protective clothing would be required for its application as a practicable commercial product.

FDA said in accordance with this information it was deleting the chemical from its list of approved tolerances, but any person who has registered or submitted an application for registration of the chemical under the federal insecticide, fungicide, and rodenticide act may request that the proposal be referred to a committee of experts provided for in the Miller pesticide law. Such request must be made by January 5.

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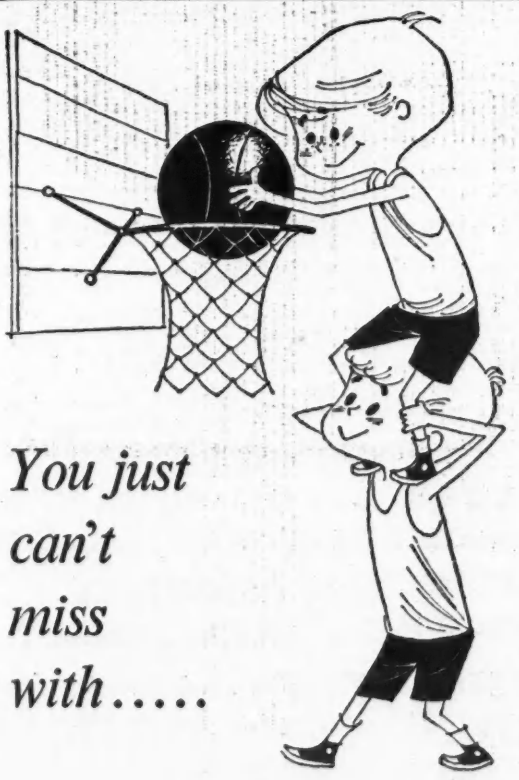

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Jobs & People

Aerosol Techniques, Inc., Bridgeport, Conn.—**Marvin Steinbock** has been named director of production.

American Chemical Society—**Dr. Chester J. Cavallito,** director of research for Irwin, Neisler & Co. of Decatur, Ill., has been elected chairman of the ACS division of medicinal chemistry for 1959.

Barrett Division, Allied Chemical Corporation, New York—**Claude R. Veeder** has been made western district sales manager for the building materials division.

Dewey & Almy Chemical Division, W. R. Grace & Co., Cambridge, Mass.—**Harry W. Eumont, jr.,** and **John R. McDermott** have joined the can sealing compound sales group, while **Charles A. Lermond** has been named a research chemist in the spectroscopy laboratory.

Diamond Alkali Company, Cleveland, Ohio—**Harry E. Connors** has been named product manager of paste resins.

Dixon Chemical Industries, Inc., Paulsboro, N. J.—**Clare Barton,** appointed an assistant to the vice-president, will operate in an engineering capacity at the Paulsboro plant.

Geigy Pharmaceuticals, a division of Geigy Chemical Corporation, Ardsley, N. Y.—**Dr. Albert Hemming** has been made director of promotion.

General Magnesite & Magnesia Company, Plymouth Meeting, Pa.—**E. R. Mako** has been named midwest representative, with headquarters in Cleveland, Ohio.

Hercules Powder Company, Wilmington, Del.—**Edward K. Lefren** has been promoted from director of operations for the explosives department to manager of technical services for the engineering department, a new post.

Holland Color & Chemical Company, a subsidiary of Chemetron Corporation, Holland, Mich.—**T. A. McCormack** has been appointed eastern technical sales representative, with headquarters in Murray Hill, N. J.

Hooker Chemical Corporation, Niagara Falls, N. Y.—**Victor M. Morgan** has been named plant engineer of the Columbia, Tenn., plant of the phosphorus division.

International Minerals & Chemical Corporation, Chicago—**Keith D. Bunnel** has been appointed administrative staff manager of the industrial minerals division.

McKesson & Robbins, Inc., New York—**W. Delbert Hill** has been made sales manager of the Kansas City, Mo., drug division.

Michigan Chemical Corporation, St. Louis, Michigan—**Fred A. DeMaestri,** operations vice-president of the company, has been elected to fill a vacancy on the board of directors.

National Aniline Division, Allied Chemical Corporation, New York—**John T. Milton** has been transferred to the Los Angeles branch office.

National Plant Food Institute — **Louis H. Wilson,** secretary and director of information, has received the meritorious service award of the National Association of Television and Radio Farm Directors.

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa.—**Arthur R. McDermott** has been appointed technical sales representative for the activated carbon division in the midwest territory (Chicago).

Solvay Process Division, Allied Chemical Corporation, New York—**John W. Priesing** has been named west coast sales representative.

R. D. Webb & Co., Cos Cob, Conn.—**Harlan R. Wolfe** has been added to the Chicago sales staff.

Aerosol Industry Makes a Prediction at 10

—Continued from page 5

of Warner Lambert Research Institute, Morris Plains, N. J., who last week told the Chemical Specialties Manufacturers Association in New York that aerosols must contribute some new property to a cosmetic to warrant their growth in an aerosol package.

He reported that the use of nitrogen to propel aqueous cosmetic creams and lotions without foam is just opening up new market possibilities, and suggested that the gradual growth of aerosol colognes be studied for new growth factors.

Aerosol Foods a Bright Spot

One of the brightest areas for the pressurized package exists in aerosol foods. New gases are at present being tested by the chemical industry which, once perfected, will open up an entirely new field to aerosols.

Today, only compressed gases—primarily nitrogen or nitrous oxide and carbon dioxide—are used as propellants in such pressurized products as whipped cream, barbecue sauce and chocolate toppings.

One specialist in the field—Aerosol Techniques, Inc., of Bridgeport, Conn.—is so high on the industry's prospects that it predicts an annual sales volume of $1.5 billion within five years.

Pharmaceuticals and foods, it thinks, should make the greatest gains within the next three years. In fact, it believes that pharmaceuticals will open up a $200 million market to aerosols by 1961.

The first aerosols for consumer use appeared on the market in 1947. Production that year was estimated at little more than 5 million units, almost entirely insecticides.

The following year, with moth proofers also appearing in pressure-packed cans, aerosol production was about 10 million units.

Aerosol Output in 1952

Four years after the first insecticide aerosol was introduced, annual production of all aerosols rose to 43 million units.

In 1952, this total was more than doubled to 96.6 million units. Two years later, some 185 million units were sold. This figure increased to 240 million in 1955. Finally, the total number of non-food aerosols produced in 1957 was 390 million units.

By way of dramatizing the aerosol industry's phenomenal climb in ten years, CSMA conducted a one-day aerosol supermarket. On display were products of more than 100 aerosol marketers and fillers.

Additives, Food Men

—Continued from page 3

the Food Law Institute, asked the secretary to extend the thirty-day period for filing comments on the regulations just issued under the food additives amendment, and expressed the hope that FDA officials would be willing to meet with industry people on their comments relative to the regulations before they are filed so that they will better understand the points sought to be raised.

He also asked for help from the agency in encouraging the states to adopt uniform food additives laws conforming to the federal law, so that a chaotic situation does not develop to confront the food and chemical industries.

He emphasized that this was particularly important with respect to requirements that called for filing certain trade secrets as part of the petition for clearance of an additive.

Mr. Dunn criticized plans for a separate law covering color additives, and said he hoped FDA would hold a conference of interested groups on this matter before endorsing any such proposal.

He said that aside from coaltar colors, he was at a loss to understand why a new law is needed to guarantee the safety of colors in view of the food additives law.

J. V. Vernon, president of National Agricultural Chemicals Association, asked the secretary to support an amendment to the food additives law that would transfer chemical defoliants, desiccants, and growth regulators to the Miller pesticide law because of their closer relationship to the field of pest control than to food processing.

The National Confectioners Association asked FDA to adopt a policy that would permit the labeling of additives according to their functional purpose rather than simply a listing of chemical names that would provide no information to the average consumer.

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2—Sharples PN14 Super-D-Canters, 316 S.S.
1—AT&M 26" suspended Centrifuge, perforated basket, 316 S.S.
2—Oliver 8' x 8' Precoat rubber covered Rotary Vacuum Filters.
1—Oliver 3' x 4' lead Rotary Vacuum Filter.
4—Sperry 36" rubber covered Plate & Frame Filters, 30 chambers.
4—Sperry 36" cast iron Plate & Frame Filters, 30 chambers.
4—Sperry 42" aluminum Recessed Filters, 36 chambers.
4—Shriver 36" wood Plate & Frame Filters, 44 chambers.
5—Struthers-Wells 8' dia. x 24' high rubber lined Vacuum. Crystallizers.

PULVERIZERS AND MILLS

5—Mikro Pulverizers, 4TH, 3TH, 2TH, motor driven.
2—Abbe 5' x 16' brick lined Mills.
3—30" dia. Stainless Steel Micronizers complete with Hoppers, Conveyors, etc.

KILNS AND DRYERS

1—Traylor 11' x 155' Rotary Kiln, 7/8" shell welded, 2 tires.
1—Vulcan 8' x 125' Rotary Kiln, 3/4" shell riveted, 2 tires.
2—Vulcan 8' x 50' Rotary Kilns, 7/8" shell welded, 2 tires.
2—Rennenberg 6' x 60' Rotary Kilns, 5/8" shell riveted.
1—Traylor 5' x 50' Rotary Dryer, 7/16" shell welded, 2 tires.
1—Proctor & Schwartz 8' wide x 60' long Conveyor Dryer, Stainless Steel Belt.

RUBBER LINED TANKS

4—3400 gal. 8' x 8' with Nettco Turbo Agitators, 15 HP motors.
1—4000 gal. 10' x 7'6" with Nettco Turbo Agitator, 10 HP motor.
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5—8500 gal. Vertical Storage, 8'6" x 16' x 8' cone.
1—10,500 gal. Horizontal Storage, 10' x 18'.
1—13,000 gal. Horizontal Storage 8' x 35'.

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4—2000 gal. 7' x 7' with Nettco Turbo Agitators, 10 HP motors.
1—3000 gal. 8' x 8' with patterson Turbo Agitator, 10 HP motor.
1—5200 gal. 10' x 9' with Patterson Turbo Agitator, 10 HP motor.
15—Storage Tanks: 3800; 6000; 9000; 10,000; 15,000; 47,000 gals.

OTHER ITEMS

3—Worthington, I.R. Compressors: 1000, 500 & 365 cfm, 30 psi.
4—Worthington, I.R. Vacuum pumps, 1000 and 500 cfm.
11—Steel Buildings 20' to 80' trusses.
2—Shepard Niles 20 ton Overhead Cranes.
10—Dorr Thickeners; 50', 40' and 16' dia. with Tanks.
1—Bemus 50# Bag Packer with Sewing Machine, Conveyor and Flattener.
125—LaBour, Durco, Worthite, Duriron and Stainless Steel Centrifugal Pumps 2" to 6" with motors.

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1—4000 gal. 347 S.S. jacketed Reactor, 8' x 8'8", 150# internal.
2—1500 gal. Pfaudler, glass lined, jacketed, agitated Reactor.
1—500 gal. Walters, 304 S.S. jacketed, agitated Reactor, 4' x 5'.
1—500 gal. Blaw-Knox, 347 S.S. jacketed, agitated Reactor.
1—1400 gal. Blaw-Knox, steel, jacketed, agitated Reactor.
1—550 sq. ft. Buflovak, monel, single effect Evaporator.
1—250 sq. ft. Buflovak, 304 S.S. forced circulation Evaporator.
1—20 sq. ft. Buflovak, 304 S.S. forced circulation Evaporator.
1—3500 gal. 304 S.S., jacketed, agitated Tank, 9' x 7'.
2—5000 gal. 304 S.S. horizontal Tanks, 6'6" x 20'.
1—9400 gal. 316 S.S. horizontal Tank, 8'6" x 19'.
1—4000 gal. Haveg, vertical Tank, 8' x 12'.
1—12,000 gal. horizontal, steel Pressure Tank, 7'6" x 36', 200 psi.
8—Stainless Heat Exchangers; 1220, 942, 786, 536, 396, 315, 250, 157 sq. ft.

CENTRIFUGES

3—Bird; 32" x 50", 24" x 38", 18" x 28", 316 S.S., Solid Bowl, Continuous.
1—Bird 24" x 38", Monel, Solid Bowl, Continuous.
1—Bird 18" x 28", steel, Solid Bowl, Continuous. NEW.
2—Sharples PY14, PN14, Super-D-Canters, 316 S.S.
1—Sharples C20 Super-D-Hydrator, 316 S.S., XP construction.
1—Sharples H2 Nozzlejector, 15 HP, 304 S.S.
1—Bird 40" suspended, 347 S.S., imperforate basket, 1800 RPM.
1—Bird 40" suspended, rubber covered, perforated basket.
1—Hercules 40" center-slung, rubber covered, perforated basket.
1—Tolhurst 30", 304 S.S., underdriven, perforated basket.
2—Sharples #16, 304 S.S., 3 HP motor.

FILTERS

2—Oliver 5'3" x 8' Steel Rotary Vacuum, vapor-tite housings.
2—Oliver 8' x 8', rubber covered, Rotary Vacuum.
2—Sparkler 33S28 Filters, 150 sq. ft., 304 S.S.
1—Niagara 36H110 horizontal Filter, 110 sq. ft., 304 S.S.
1—Sparkler 33-S-17 steel Filter, 92 sq. ft.
1—#12 Sweetland Filter, 48 leaves, 3" centers, 640 sq. ft.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.

DRYERS

1—Devine Vacuum Shelf with 19—59" x 78" shelves.
1—Devine Vacuum Shelf with 10—40" x 43" shelves.
2—Overton 42" x 120", Atmospheric, Double Drum.
1—Overton 12" x 19", Atmospheric, Double Drum, chrome rolls.
2—Devine 5' x 12', 4' x 9', Atmospheric, Single Drum.
2—Devine 3' x 8', TEFLON Coated, Rotary Vacuum.
2—Louisville Rotary Steam Tube, 5' x 20', 6' x 50'.
2—Rotary Kilns, 10 x 120', 6' x 50'.
3—Rotary Dryers; 6' x 50', 5'6" x 50', 5' x 30'.
2—Link Belt; 7'5" x 25' Monel, 6'4" x 24' 316 SS, Roto Louvre Dryers.

MIXERS

1—Baker Perkins #16TRM, 150 gal., jacketed, sigma blades, Vacuum, 50 HP motor.
5—Baker Perkins #15 JIM2, 100 gal. jacketed, sigma blades, 20 HP motors.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
1—Day Jumbo Mixer, 5' x 12', jktd., 304, S.S.
5—Steel, jacketed Powder Mixers; 50, 225 and 350 cu. ft.

PULVERIZERS — MILLS

1—Hardinge 4½' x 24" Conical Ball Mill.
2—Abbe 5' x 6', 4' x 5', silex lined Pebble Mills.
5—Jeffrey Hammer Mills; 20" x 12", 15" x 8", motor driven.
3—Mikro Pulverizers; 4TH, 3TH and 2TH.
1—FitzMill model D, 304 S.S., 7½ HP motor.
2—Kent, Ross, 6" x 14" Three Roll Mills.

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3—25 ton Freon Refrigeration Units.
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3—Pfaudler 750 gal. Glass Lined Reactors.
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1—Buflovak 32" x 52" Double Drum Dryer, dairy type—atm.
1—1200 gal. Steel Vacuum Still, 5' dia. x 8' long, dished heads.
1—500 gal. Jacketed Still, T347 SS, Vacuum.
1—350 gal. horiz. jktd. Receiver, T347 SS.
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24—200 gal. Baker Perkins jkt. sigma-blade mixers, #17-VII.
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30 gal. G/L, vac. int., 75# Jkt.,

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11' x 155' Traylor, ⅞" shell.
9' x 130' 2-tire, ¾" shell.
8' x 170' 3-tire, ¾" shell.
8' x 125' Vulcan, ¾" shell.
8' x 115' 2-tire, ½" shell.
8' x 50' Vulcan, 1" shell.
7' x 120' 3-tire, 7/16" shell.
6' x 60' 2-tire, ⅝" shell.
4' x 24' brick-lined.

ROTARY DRYERS

8'8" x 70', ½", dbl. shell.
6' x 50', steam tube.
5'6" x 50', ⅜" shell.
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4' x 12', T304 SS.
3' x 15', Everdur.

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10,500 gal., horiz., UNUSED.
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3,700 gal. vacuum tank, w/coils.
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1,750 gal., vert., 3/16", (hoppers).
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HAMMERMILL, Penna. Crusher "non-clog," #DNC-5060, 400 HP, 1952—UNUSED.
HAMMERMILL, Penna, Crusher #C-3-30, 60 HP, "Trojan."
HAMMERMILLS, Jeffrey 50 HP, 25 HP, 36" x 24", 24" x 18."
ROLLER MILL, Raymond #3036.
ROLLER MILL, Raymond #15, 6-roll, low-side, 200 HP.
PULVERIZER, Babcock & Wilcox, #32E, 75 HP.
GYRATORY CRUSHER, Kennedy #49-S, 100 HP.

CENTRIFUGALS, Continuous

SHARPLES C-20, SUPER-D-HY-DRATOR, T316 SS.
SHARPLES #PN-14 Super-D-Canters, T316 SS.
Sharples #AS-16, SS, 1953.
Sharples #18-V, Tinned steel.
BIRD 32" x 50", T316 SS.
Bird 18" x 28", T304 SS.
Bird 24" x 38", Monel, horiz.
Bird 24" x 24", Monel.

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625 SQ. FT., T347 SS, SINGLE EFFECT, VACUUM.
588 SQ. FT., SS, VERT. LONG-TUBE, DBL. EFFECT,BUFLOVAK.
400, 250 SQ. FT., NICKEL, VERT. LONGTUBE.
250 SQ. FT., T304 SS, FORCED CIRC.
236 sq. ft., T316 SS, Dbl. effect
20 sq. ft., T304 SS, forced circ.

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Jeffrey 24 x 18 Hammer Mills, m.d.
Stokes "T" single punch Tablet Mch., m.d.
#2 Sweetland Filter, leaves on 2" centers.
Abbe #8 "all steel" Ball Mill.
Lydon Tray Dryer, steam heated, 32 sq. ft.
Robinson 20 x 48" Gyro Sifter, m.d.
Alberger 1 gal. agi. Autoclave.
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Pebble Mills: Patterson D 3 x 4' porc.
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Standard-Knapp 429 carton Gluer/Sealer
Percolators: Pfaudler, stainless, 54 x 42"
Mills: Fitzpatrick model D, st. st., jktd.
Crystallizers: 500 gal. stain. jack., agit.
Dryer: Porter 2 x 4' vac. drum, st. st.
Centrifugal: Tolhurst 26" rubber, 2-speed
Mix-Mullers: Simpson Lab., Porto, #00.
3-roll Mill: Day 12x32" hi-speed, 2-speed.
3-roll Mills: Day type B 14 x 30" hi-speed.
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Devine Vac. Shelf Dryer; 58" x 78", dbl. door.
SS Spray Dryer, 3' x 10'; complete unit.
2—Mikro's—Bantam & 1SL with 5 HP motor.
Pfaudler 1,500 gal. Glass Tank; closed top.
Nash Hytor Vac. Pump #6, 40 HP motor.
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1—Stainless Steel Condenser 100 sq. ft.
1—Stokes 43B Granulator.
1—Simpson Muller 10"—M. D.
2—Stokes "DD-2" Rotary Tablet Machines.
3—Stokes "F" & "R" Single Punch Tab. Machines.
1—Colton #216 Rotary Tablet Machine.
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2—Titan Superjectors, Model NS-70 with SS contact parts.

1—Merco type 316 SS centrifuge, Model B9.

4—Tolhurst center slung rubber lined centrifuges, 30", 40" and 48", perforated baskets.

1—Sharples #16P pressurite SS centrifuge.

2—Tolhurst SS type centrifuges, 26" and 32" baskets.

1—Theo. Walters 500 gal. SS jacketed reactor.

4—Van Alst SS jacketed kettle, 150 gal. each.

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1—Nickel clad horizontal storage tank, 5000 gal., dished heads.

1—Stokes SS rotary vacuum dryer, 2' x 6'.

1—Stokes rotary tablet press, Model DDS2.

1—Stokes SS rotary vacuum dryer, 3' x 15'.

6—Stokes steel rotary vacuum dryers, 3' x 15'.

1—Stokes steel rotary vacuum dryer, 5' x 30'.

1—Buflovak steel rotary vacuum dryer, 5' x 33'.

4—Link Belt steel roto louvre dryers, 207-10, 310-16, 310-20, 604-20.

2—Buflovak 32" x 90" and 42" x 120" double drum dryers, complete.

1—Stokes double drum dryer, 5' x 12'.

7—Patterson-Kelley steel heat exchangers, 1000 sq. ft. each.

5—Badger type 316 SS heat exchangers, 170, 330, 480, 523 650 sq. ft.

8—Struthers Wells steel heat exchangers, 885 sq. ft. each.

1—Cleaver Brooks 500 HP package steam generator, 200# working pressure, ASME National Board.

1—Stokes single punch tablet press, Model 280.

2—Stokes Model T tablet presses.

3—Badger type 316 SS bubble cap columns, 3' x 18' with 11 trays.

1—Badger type 316 SS bubble cap column, 42" dia. with 11 trays.

1—Leader SS 51 cu. ft. horizontal ribbon blender.

3—Robinson type 316 SS sigma type jacketed heavy duty mixers, 300 gal., complete with motors.

1—Baker Perkins, Size 16 TRM, 150 gal. double arm jacketed sigma blade mixer with motor.

3—Howes 40 cu. ft. rubber covered ribbon blenders.

1—Simpson 18" muller.

1—Niagara SS filter, Model 510-28.

1—Sweetland #3 SS filter, 70 sq. ft.

2—Tolhurst SS suspended type centrifuges with 40" perforated basket, fume tight covers, complete.

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MILLS — GRINDERS

4347—Abbe Porcelain Lined Pebble Mill; 56" x 42".

4838 B15—Abbe Porcelain Lined Pebble Mill Type SA 37" x 48".

4838 B1-4—Four Patterson Ball Mills 30" x 30".

4838 B4 to 11—Six Patterson Porcelain Lined Pebble Mills, Type B; 30" x 42".

8443—International 8' x 8' Pere. Lnd. Pebble Mills; 50 HP Gearmotors.

4683 D4-5—2 Patterson Jacketed Ball Mills Model DJ 84" x 42"; Vacuum.

4693—Jacketed Buhrstone Lined Pebble Mill; 6' x 6'; 1000 Gal.; 25 HP.

4686—Mikro Model S TH Pulverizer; 10 HP; Blower and Fan.

8324 B5—Mikro No. 4 P Pulverizer; 18" x 24".

MsA1961—Mikro No. 1 Type SCB chamber 7" x 11½"; arr. for motor drive.

4473 G2—Fitzpatrick Comminutator Model K7; Stainless Steel; with 20 HP hi speed motor.

4470 C2—Mikro Atomizer No. 8; Stainless Lined; Motorized.

4918 G2—J. H. Day High Speed 8 Roll Paint Mill; 14" x 36" motorized with 25 HP Motor.

4864—NEW Farrell Birmingham Battery of 14" x 30" late type Plastic or Rubber Mills; Modern top cap construction.

M10 483—Rietz Disintegrator Model RD8 with 5 HP Motor.

M10 488—Raitz Model RD 10 Disintegrator; 50 HP Motor.

3315 B2—Williams Ring Roll Lab. Mill 9 rolls; 10" x 3" with Cyclone and Dust Collector.

8130—American Ring Roll Crusher; 60" x 62" throat; 50 HP.

8393 N1—Raymond Imp Mill 9" x 10" with accessories.

4841 P48—Raymond No. 6000 Automatic-Pulverizer cool.

4843 K6—Raymond Imp Mill No. 6000; direct drive 10 HP.

4714 A1—Raymond No. 45 Imp Mill; 50 HP with Dust Collector.

4844C—Raymond No. 47 Imp Mills; 30 HP Motor.

M10 V19—Raymond MI Side Roller Mill with Whizzer, Cyclone, Dust Collector, 25 HP Motor and all accessories.

MIXERS — ALL TYPES

4736—Baker Perkins 4.5 gal. working cap. Stainless Steel Shredder Mixer; with cover.

4703 B3—J. H. Day Lab. Size Double Arm Mixer; 9" x 8½" x 8½" Motorized.

4551 S8—J. H. Day Jacketed Heavy Duty Double Z Armed Mixer; 10" x 10" x 20" Bowl; Motorized.

4689—Baker Perkins Stainless Steel 100 Gal. Size 10 Dbl. Arm Jacketed Shredder Type Mixer; Vacuum Cover; 75 HP.

2160—W. & P. Type Jktd. Double Arm 100 Gal. Mixers geared both ends.

4472 G1—Baker Perkins Size 10 Model JIM 100 Gal. Jacketed Mixer with Hydraulic Tilt.

4742—Baker Perkins Size 16 UUMM Double Arm Dispersion Type Mixer 240 Gal. holding; 150 Gal. working; Compression Cover; Hydraulic Tilt.

4371 D1—Baker Perkins Size 17 Class BB Type V11 Jacketed Mixers; double sigma arms; 200 Gal.

M25-561—J. H. Day Stainless 250 Gal. Jktd Mixer with sigma arms; geared both ends.

4409 D—6 Baker Perkins Heavy Duty Jacketed Mixers; 300 Gal. working; Size 18 with Hydraulic Tilt; 30 HP Motors.

4343 D—7 Baker Perkins Heavy Duty Jacketed Mixers; Sigma Double Arms; Size 17; 500 Gal. working with 30 HP Motors.

4703 B1—J. H. Day Cincinnatus Stainless Steel 300 Gal. Jacketed Double Arm Mixer; Motorized XPL.

4831 I1—Simpson Lab. Muller Type Mixer 24" x 11"; 1½ HP.

4681—Simpson Intensive Mixer Style M Model C 24" x 16"; 5 HP.

8448-M1—Lancaster Model EAG 3; diameter 45½"; 5½ cu. ft.

4682—Simpson Intensive Mixer No. 2; 6' x 30"; 20 HP.

8333—Sprout Waldron Mixers; 303 cu. ft. 8' dia. x 10' long; center discharge.

8838—Wolf Powder Mixer; 24" x 32" x 94" Motorized with 5 HP Motor.

8427 P3—Marquette Paddle Mixer; 24" x 12' long.

4831 D16—Readco Jacketed Ribbon Blender; 12 cu. ft. 72" x 18" in STAINLESS with 5 HP Motor.

4848 B2—Sturtevent Rotary Blender 7' x 40'; 135 cu. ft. with 10 HP Motor.

4514 S2—Stainless Steel Tumbling Batch Mixer; 17 cu. ft.; 42" x 14" cones; Motorized 3 HP.

COLLOID MILLS—HOMOGENIZERS

1699—U.S. L2 S/S 3¼" Colloid Mill with two 5 HP Motors.

4882—Premier Model UB Colloid Mill with Stainless Rotor and Stator; 5 HP Motor.

3273 L1—Premier L18 Colloid Mill; 12"; with 30 HP AC Motor.

3297—Eppenbach Model GV8 with 5 HP AC Motor.

3961 E1-7—Premier Stainless Colloid Mills Type U3; 4"; 15 HP Motors.

4687—Charlotte Stainless Steel Colloid Mill No. 3 with 5 HP Motor; 3500 RPM.

4846—Charlotte Sanitary Stainless Steel Colloid Mill; Model 20 ND; 600 GPH; 2 Speed 20/13 HP Motor.

4837 N3—Cherry Burrell Stainless Sanitary Homogenizer Size 1500; with 25 HP Motor.

4703 G2—Chemicolloid Stainless Steel Colloid Mill Model A 12 with 10 HP Motor; 3525 RPM.

4316—Marco Stainless Homogenizer No. 400 Capacity 750 GPH.

TABLET EQUIPMENT

4894 W 3-4—Two Stokes Model F single Punch Tablet Presses.

4847 B2—F. J. Stokes Model T Tablet Press; 1¾" x 1¼"; up to 80 per Minute; 2 HP Motor.

P13-101—Stokes "R" Single Punch Tablet Press; 2½" x 2"; 3 HP.

4894—F. J. Stokes Model B4 Pre-Form Tablet Press; Reeves Vari Speed Drive 5 HP Motor.

4717F1—Colton Single Punch No. 4½; 1½" x 1½"; 60 per M.

P13 K202—Colton No. 340 Single Punch Press 1⅜" up to 110 per minute.

4847 B1—Colton Model No. 5½ Tablet Press; 3" x 2¼"; up to 50 per minute; 5 HP Motor.

4717F3—Kux Model No. 60A; 30 Ton; 2" x 2½"; 5 HP Motor.

P13 M203—F. J. Stokes Model 533 Rotary Tablet Press 33 Stations 1⅜"; dual Pressure; 1000 per M.

4400C—Stokes Rotary BB; 33 Head Tablet Press; 3 HP.

3673 L36—Colton No. 1 PT Aut. Tablet Triturate Machines 3600 per M.

3026 P-11—Stokes Rotary D1-16 Station Tablet Press.

SEND FOR NEW ISSUE OF "FIRST FACTS"

FILTERS — FILTER PRESSES

4041 P3—Shriver 18" Aluminum Filter Press; 10 chamber 2 eye Cl. Del.

4735 D5—Sperry 12" Portable Filter Press; Type 316 S/S 12 chambers; Ratchet Closing.

4440 D1—Sperry 12" Type RC Stainless Filter Press.

3884-A1—Sperry Aluminum 18" Filter Press; 4 eyed.

4041 P3—Shriver 18" Aluminum Filter Press; 10 chamber; closed delivery; 2 eyed.

4871 D1—Sperry 18" Ni-Resist Type 41 Filter Press 24 chambers; Cl. Del. Ratchet closing.

4448 D-3-4—2 Shriver Stainless 10" Filter Presses; 7 chambers; closed delivery; Side Feed Ratchet.

4339 C-2—Shriver Cast Iron 24" Filter Press; 12 chamber; 2 eyed, open delivery.

4388 D2—Shriver Cast Iron Pl. & Frame Filter Press 24"; 4 eye; closed del. ratchet closing.

4753 D 1-3—3 Shriver Cast Iron 24" Filter Press; 19 chambers; Three eyed; closed delivery; Ratchet.

4813 D8—Shriver 24" Cast Iron Filter Press; 3 eye; 30 chambers; corner feed.

4410 K3—Shriver 24" C.I. Filter Press 30 chambers; 2 eye; Side Feed; Cl. Del.; Simplex Hydr. Closer.

4888 K16—Shriver 24" Wood Pl. & Fr. Press; 15 chambers; 2 eyed; Cl. Del.

3787 B5—Shriver 30" C.I. 30 chamber P. & F. G.D.

4343 K23—Sperry Cast Iron 30" Plate & Frame Press.

3935—Shriver 30" C.I. 24 chamber Press; 3 eyed.

4472 G29—Sperry Cast Iron 36" Filter Press; 25 chambers; 2 eyed, Open Delivery; Washing Type.

1501 M4—Sperry 30" Type 31 Wood P. & F. Filter Press; 40 chambers; Hydraulic Closing.

3929 K1—Independent 32" Wood Pl. & Fr. 60 chambers; 2 eyed; Cl. Del.

4254—Shriver STEAM JACKETED 36" Filter Press; C.I. 29 chambers; Semi Cl.

3673-L41—Sperry 36" Aluminum Filter Press 33 chambers; 4 eye with hydraulic closing pump and motor.

4352 A1—Shriver C.I. 42" P. & F. Filter Press; 4 eye; closed delivery.

3168—Sweetland Filter No. 2 12 leaves; 2" centers.

4854 E2—Sweetland Filter No. 2; lead lined with 12 copper leaves.

F14-852—Sweetland No. 12 Pressure Leaf Filter; 72 Bronze Leaves; 105 sq. ft.

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Formic Acid, 960 bots., Bid IFB M5-66-59, Dec. 19, Marketing Div., Drugs & Chemicals, Veterans Admin. Supply Depot, Somerville, N.J.

Hydrogen Peroxide, 36,000 bots., Bid IFB M5-66-59, Dec. 19, Marketing Div., Drugs & Chemicals, Veterans Admin. Supply Depot, Somerville, N.J.

Lead, 2,356,400 lbs., pig, 99.9% minimum lead content, approx. 80 to 110 lbs. Fed. spec. QQ-L-171C, grade A, Fed. stiker No. 9850-277-8330, Bid IFB 59-276, Dec. 23, Raritan Arsenal, Metuchen, N.J.

Lime, 525 tons, chemical hydrated, Bid IFB-CIVENG-49-080-59-9, Dec. 23, US Army Engineer District, Washington Corps of Engineers, First & Douglas Sts., Washington 25, D.C.

Magnesia Magna, 12,200 bots., Bid IFB M5-66-59, Dec. 19, Marketing Div., Drugs & Chemicals, Veterans Admin. Supply Depot, Somerville, N.J.

Nitric Acid, 1,220 bots., Bid IFB M5-66-69, Dec. 19, Marketing Div., Drugs & Chemicals, Veterans Admin. Supply Depot, Somerville, N.J.

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Sodium Silicofluoride, 200 tons, Bid, IFB-CIVENG-49-080-59-10, Dec. 23, US Army Engineer District, Washington, Corps of Engineers, First & Douglas sts., Washington 25, DC.

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Please give details about your education and experience in your letter to:
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WATTLE EXTRACT—547 bgs, Elkan River Rate Corp, Durban
WHITING—1,600 bgs, N H Weitzner, Antwerp
680 bgs, Hammill & Gillespie, Hull
4,800 bgs, Antwerp
WITHERITE—224 tons, E I Dupont De Nemours & Co, Middlesbrough
WOOL GREASE—50 dms, Gallard Schlesinger, Bremen
6 dms, Eelsingh & Lugtigheid, Rotterdam
WORMWOOD HERB—55 bls, S B Penick & Co, Rijeka
YLANG YLANG OIL—2 cans, L A Champon & Co, Hamburg

Los Angeles

CASEIN—500 bgs, Borden Chemical Co, Buenos Aires
200 bgs, J R Spellacy, Sydney
50 bgs, Eugenio Lang, Buenos Aires
COPRA—1,000 tons, Toftman Corp, Tacloban
721 tons, Procter & Gamble Co, Tacloban
500 tons, American Trust Co, Tacloban
500 tons, Pacific Vegetable Oil Corp, Masbate
288 tons, Procter & Gamble Co, Cebu
700 tons, Procter & Gamble Co, Cagayan de Oro
500 tons, American Trust Co, Cebu
500 tons, American Trust Co, Zamboanga
300 tons, American Trust Co, Davao
200 tons, Cargill Inc, Tacloban
450 tons, Pacific Vegetable Oil Corp, Tabaco
700 tons, American Trust Co, Tabaco
50 tons, Pacific Vegetable Oil Corp, Legaspi
700 tons, Procter & Gamble Co, Dumaquete
COPRA CAKE—2,000 bgs, Balfour Guthrie, Cebu
2,240 bgs, Cargill Inc, Manila
PEPPER, BLACK—35 bgs, Singapore
PEPPER, RED—50 bgs, Hismoco American Co, Kobe
50 bgs, Hismoco American Co, Yokohama
PETROLEUM, CRUDE—245,200 bbls, Bankline Oil Co, Mena Al Ahmadi
68,852 bbls, Wilshire Oil Co, Mena Al Ahmadi
39,720 tons, Union Oil Co, Mena Al Ahmadi
QUEBRACHO EXTRACT—512 bgs, Barkey Importing Co, Buenos Aires
TAPIOCA FLOUR—1,344 bgs, Internatio Rotterdam, Bangkok
2,240 bgs, Stein Hall & Co, Bangkok

Philadelphia

ALUMINUM FLUORIDE—1,436 bgs, Associated Metals & Minerals Corp, Rotterdam
AMMONIUM CHLORIDE—500 bgs, Chemical Manufacturing Co, Liverpool
ANTIMONY OXIDE—320 bgs, National Lead Co, Liverpool
ARSENIC, WHITE—240 dms, American Firstoline Corp, Marseille
ASBESTOS FIBER—1,280 bgs, Chas Kurz & Co, Lourenco Marques
1,100 bgs, Chas Kurz & Co, Durban
BALL CLAY—568 tons, Moore & Munger, Avonmouth
1,305 tons, Paper Makers Co, Avonmouth
CHINA CLAY—6,220 tons, Fowey
FERRIC CARBONATE—2,000 bgs, Chas Kurz & Co, Copenhagen
FUEL OIL—82,938 bbls, Shell Oil Co, Punta Cardon
GLUE, BONE—450 bgs, Transatlantic Animal By-Products Corp, Rotterdam
GYPSUM—200 bgs, Reway Co, Liverpool
GYPSUM, CRUDE—6,073 tons, U S Gypsum Co, Little Narrows
HOOFMEAL—420 bgs, Transatlantic Animal By-Products Corp, Buenos Aires
MAGNESIUM OXIDE—400 cs, Keer Maurer, Liverpool
MONOCHLOROACETIC ACID—80 dms, International Selling Corp, Marseille
PEPPER, BLACK—80 bgs, Cochin
PETROLEUM, CRUDE—296,928 bbls, Gulf Oil Corp, Mena Al Ahmadi
174,037 bbls, Gulf Oil Corp, Bachaquero
183,653 bbls, Gulf Oil Corp, Las Piedras
304,109 bbls, Texas Oil Co, Puerto La Cruz
146,542 bbls, Texas Oil Co, Trinidad
122,079 bbls, Shell Oil Co, Punta Cardon
125,556 bbls, Socony Mobil Oil Co, Naples
139,419 bbls, Socony Mobil Oil Co, Puerto La Cruz
210,968 bbls, Socony Mobil Oil Co, Covenas
127,823 bbls, Atlantic Refining Co, Maracaibo
129,891 bbls, Atlantic Refining Co, Pamatacual
256,372 bbls, Atlantic Refining Co, Banias
282,525 bbls, Atlantic Refining Co, Puerto La Cruz
110,163 bbls, Atlantic Refining Co, Mena Al Ahmadi
PYRIDINE—15 dms, Gallard Schlesinger, Rotterdam
SODIUM BICARBONATE—1,000 bgs, Chemical Manufacturing Co, Liverpool
SODIUM SILICOFLUORIDE—600 bgs, Riches Nelson, Rotterdam
TITANIUM POTASSIUM OXALATE—50 dms, C M C Chemicals Inc, Liverpool
UREA—1,000 bgs, Nylos Trading Co, Genoa
XYLENOL—200 dms, Hamburg

San Francisco

ALUMINOUS OXIDE—113 dms, W C Auger & Co, Liverpool
AMMONIUM BICARBONATE—134 dms, C M C Chemicals Inc, Hull
ANISE SEED—50 bgs, H M Newhall & Co, Genoa
CALCIUM CHLORIDE—500 bgs, D M Hicks, Antwerp
CALCIUM NITRATE—20,000 bgs, Wilson & Geo Meyer & Co, Heroya
CARDAMOM—14 cs, Mincing Trading Corp, Stockholm
CASEIN—300 bgs, Eugenio Lang, Buenos Aires
300 bgs, J R Spellacy, Buenos Aires
500 bgs, Borden Chemical Co, Buenos Aires
100 bgs, National City Bank, Buenos Aires
CASSIA—254 bls, Singapore
COCONUT OIL—1,000 tons, Pacific Vegetable Oil Corp, Manila
COPRA—99 tons, Cargill Inc, Medina
800 tons, Cargill Inc, Romblon
660 tons, Procter & Gamble Co, Tacloban
379 tons, Procter & Gamble Co, Jagna
210 tons, Cargill Inc, Legaspi
500 tons, Toftman Corp, Tabaco
500 tons, American Trust Co, Iloilo
1,000 tons, American Trust Co, Cebu
720 tons, Pacific Vegetable Oil Corp, Cebu
250 tons, Pacific Vegeable Oil Corp, Legaspi
300 tons, Iloilo
COPRA CAKE—4,000 bgs, Balfour Guthrie, Cebu
DEXTRIN—332 bgs, Arabol Manufacturing Co, Amsterdam
35 bgs, Guaranty Trust Co, Amsterdam
200 bgs, Morningstar Paisley Inc, Amsterdam
FORMIC ACID—20 dms, P W Bellingall, Hamburg
LOCUST BEAN GUM—100 bgs, H M Newhall & Co, Genoa
MOLASSES—1,568 tons, Kaohsiung
OLIVE OIL—103 dms, Veronica Olive Oil Co, Marseille
300 dms, A Giurlani & Bro, Leghorn
PEPPER, BLACK—240 bgs, Borneo Sumatra Trading Co, Singapore
560 bgs, Singapore
PETROLEUM, CRUDE—31,100 tons, Tidewater Oil Co, Sungai Pakning
QUEBRACHO EXTRACT—1,269 bgs, First National Boston, Buenos Aires
SESAME SEED—150 bgs, H M Newhall & Co, Corinto
SODIUM CASEINATE—250 bgs, P A Dunkel, Amsterdam
SODIUM CYANIDE—100 dms, C M C Chemicals Inc, Hull
SODIUM PERBORATE TETRAHYDRATE—600 bgs, Chemical Manufacturing Co, Liverpool
SULFADIAZINE POWDER—2 dms, D M Hicks, Hamburg
TAPIOCA FLOUR—200 bgs, Stein, Hall & Co, Santos
810 bgs, Internatio Rotterdam, Bangkok
2,240 bgs, Morningstar Paisley Inc, Bangkok
TARTARIC ACID—80 bgs, Nylos Trading Co, Genoa
WHITING—1,600 bgs, Pluess Staufer, Antwerp

Chemicals Giving Autos

—*Continued from page 5*

under way, he added, noting that a key aspect of this is the question of what to do with radioactive wastes.

He conceded that the nation's safety record in this field is little short of phenomenal, but warned that we must be on the alert for potential dangers.

Dr. Leona Baumgartner, New York City Health Commissioner, renewed her call upon the chemical industry to help educate consumers as to safe use of household chemicals.

Noting that "the average household today has the equivalent of a chemical laboratory in its kitchen and household cabinets," Dr. Baumgartner told CSMA that protection of the public must be the joint responsibility of government and chemical manufacturers.

New York to Study Labeling

Under provisions of its own chemical labeling law, tentatively approved last month and scheduled for adoption early next year, New York City will conduct its own study of labeling practices, with particular emphasis upon analysis of consumer reaction to precautionary labeling.

One of the important goals of the New York City board, Dr. Baumgartner said, will be to try and determine whether consumers really understand and observe signal words, such as "danger" or "caution," required by law to be used on labels of potentially hazardous chemical products.

Claims of automobile manufacturers in advertisements that the new car finishes do not require any waxing are found to be exaggerated by their own dealers and technical experts, CSMA was told by K. F. Parr and D. E. Whyte of S. C. Johnson & Son, Inc., Racine, Wis.

Reporting on a study made for the wax maker, they said, "Dealers to whom we have talked are unanimous in agreeing that car manufacturers have gone overboard with their no-waxing claims for the 1959 models. These dealers are still advising customers to wax or polish their cars regularly."

About 190 million barrels of crude oil —6.5 percent of the total US production —were recovered last year by waterflooding, reported Dr. Arnold Lada, chief of technical research for Onyx Oil & Chemical Company, Jersey Ci

By 1980, he told CS
will rise to 750 millio
or about 25 percent
duction.

Treated Water Needed

Such operations requ
of treated water. Indu
dicate that nearly 3
water were pumped int
1957 for oil recovery.

All of this, Dr. Lada
growing market for chem
for instance, the petroleu
at least 6 million pounds
to improve the quality of
in this oil recovery oper

Aqueous resin finishes
biggest headway by far i
ishes field, according to
waxes and floor finishes

Results of the study, di
association's meeting, show
ous resin finish shipments
gallons last year represent
nearly 52 percent.

The survey, which cover
1957, also turned up big str
floor cleaners and wax strip

Mixed Soap and Synthetics

In this category, shipmen
soap and synthetics, with
builders, also made a good
1957.

Those that are less than 20
volatile, with shipments of 2.8
lons, were up about 19 percen
Shipments of products that are
20 percent non-volatile total
gallons in 1957, an increase of
percent over '56.

Shipments of dust mop treat
including floor oils, amounted
lion gallons—a rise of some 16

The survey, based on a po
chemical specialty manufactu
conducted for CSMA by Ernst
New York public accounting f

There were eight floor finish g
cluded in the study: Wax emulsi
finishes, liquir floor cleaners
strippers, floor sealers and gym
solvent type waxes, paste wax e
dust mop treatments and sweepi
pounds.

Election of CSMA Officers

Donald M. King was elected p
of CSMA (see picture story on p
George W. Fiero of Esso Standard
elected first vice-president of the a
tion and Charles E. Beach of Joh
fort & Sons, Inc., Baltimore, Md
elected second vice-president.

P. C. Reilly of Reilly Tar & Che
Corporation, Indianapolis, Ind., and
Hamilton were re-elected treasurer
secretary, respectively.

Three new members were elect
CSMA's board of governors. The
Glenn E. Doerr of Federal Varnish
sion, Chicago, for two years; Mi
Lemmermeyer of Aromatic Products
pany, New York, for three years,
Leonard J. Oppenheimer of West Chemical Products, Inc., Long Island City, N. Y., three years.

Rosin Size Prices Hiked

—*Continued from page 4*

size, $7.79 in tankcars; 70 percent paste "Pexol," $9.79 in tankcars; "Dry X" rosin size, $11.85 in carlots; and "Dry Pexol" $14.85 in carlots.

Dark grades—"Size 704," $4.75 in tankcars; "Defoamed Size 740," $6.75 in tankcars; "Paste Pexol 240," $7.65 in tankcars; "Dry XXX Rosin Size," $10.60 in carlots; and "Dry Pexol 240," $13.25 in carlots.

The above schedule represents an increase over the last quarter 1958 prices of 28 cents to 40 cents per hundred pounds.

The usual differentials will apply to shipments made from northern producing points, to paste sizes of higher than 70 percent solids, and to quantities of less than tankcar or carload lots, Hercules says.

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Methyl Isobutyl Ketone • Diacetone Alcohol
Diisobutyl Ketone • Isophorone • "Hytrol"O* cyclohexanone

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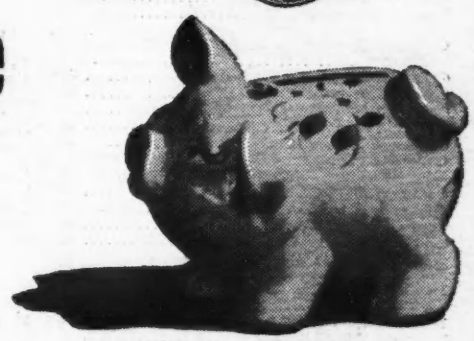
Celanese Formaldehyde



As developed by Celanese Research, Formaldehyde is a specialized chemical produced in a variety of concentrations to meet specific requirements. Celanese, one of the world's largest producers of Formaldehyde, supplies:

- **Formalin** *(37%)*
- **Paraformaldehyde** *(flake-91%)*
- **Formcel Solutions** *(Formaldehyde in specified alcohols)*

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Celanese® Formcel®

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Contact your Celanese representative, or write for Technical Bulletins. Write Celanese Corporation of America, Chemical Division, 180 Madson Avenue, New York 16, N. Y.

Export Sales: AMCEL CO., INC., AND PAN AMCEL CO., INC., 180 MADISON AVENUE, NEW YORK 16, N. Y.

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